

## **Historic, archived document**

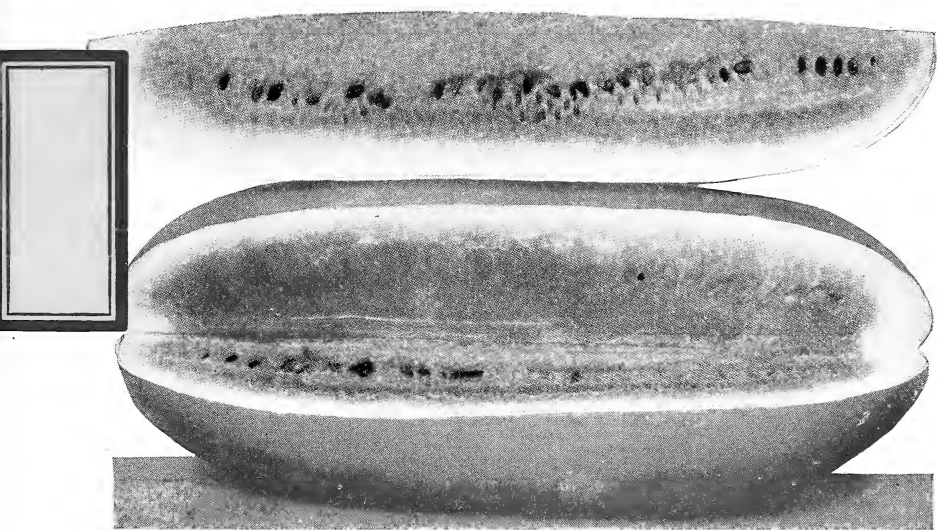
Do not assume content reflects current scientific knowledge, policies, or practices.



62.27

# MICHAEL SEED STORE

ANNUAL CATALOGUE 1924



IRISH GREY WATERMELON

See page 9

SIoux CITY  
IOWA

# Lawn Grass



# Lawn Grass

## HOW TO MAKE A LAWN

In preparing a seed bed so as to insure an everlasting lawn it is well that the earth be stirred deeper than merely scratching the surface, either with a good stirring plow or spaded to the depth of a foot or fifteen inches, or even more. This is the first step to be taken, and the next consideration is the fertility of the soil where you are making the lawn. Among the various methods which increase the fertility of the soil we find that **Humus** plays a most important part. Humus and organic matter such as barn manure, well rotted and pulverized, well mixed in the soil when plowed or spaded, has the effect to keep it sweet and porous. Aside from the fertilizing feature, humus increases the capacity of the soil to retain moisture, an important feature in the verdant effect of a velvety lawn. **Hydrated Lime** can be added to advantage and a coat of this, one hundred pounds to every 1,000 square feet, is highly beneficial and the effect is lasting and permanent. The very best time to do the work of preparing the soil for a lawn is in the autumn season and then left for the winter. The soil is solidified by the winter condition. Then in the spring the surface should be lightly stirred and the seed sown, well raked in and rolled. When the summer is over and the winter comes on again, the lawn needs attention, and it is a wise plan after the ground is slightly frozen to cover it with a moderate coat of well rotted manure. In the springtime before the growth of grass is started, this coat of manure should be well raked in the soil, and the roughage raked off, giving the grass a chance to get plenty of sunlight. Should, however, this be overlooked in the autumn, then in the springtime again it is well to apply a moderate amount of sheep manure, phosphate, or ground bone fertilizer, well raked into the soil just as soon as is possible and at such time it is well to apply a sprinkle of our blend of **Re seeding Lawn Grass**.

These suggestions in regard to the making of a lawn will well repay the time and expense by the increased growth of grass.

### DEEP ROOTED LAWN GRASS

This is a blend of strong, powerful rooted grasses. It is especially valuable and is blended on purpose for just such places where we have had trouble to get sod firmly set. Shady nooks, terraces, slopes, sun-baked corners, and other trying places difficult to get a catch and sod started with those velvety foliage surface rooted grasses. In these places **Deep Rooted Lawn Grass** planted early in the spring time with some good fertilizer well mixed in the soil brings the desired results. **Per lb. 35c; 10 lbs. \$3.00.**

**WHITE CLOVER SEED, 60c per lb.**

### BLUE GRASS

The best and most velvety lawn grass is our native grown **Kentucky Blue Grass**. It comes earliest in the spring and is the last and freshest green anywhere to be seen in the Autumn until winter comes again. There is sometimes trouble in getting it to come up quick and make a permanent sod, but this is often due perhaps to weather conditions and the quality of seed used. After years of experience we have come to understand and realize the importance and the requisite attention necessary to secure quality in **Blue Grass** seed. Quality of **Blue Grass** seed that we are now offering for lawn purposes is a high grade product grown especially for us, extra re-cleaned, sun-dried, highest germination, double weight, all chaff eliminated and in no sense to be compared to the chaffy grades of **Blue Grass** Seed usually offered for sale. This quality we handle under the name of **Purity Brand** which when sown on a well prepared seed bed in early spring-time will soon make a well sodded lawn. **Purity Brand, 30 lb. gravity quality, 50c per lb.; 5 lb. bags, \$2.25; 10 lb. bags, \$4.50.**

### MAGIC LAWN SEED

This is a special lawn grass of our own blend. It is made up of the best kinds and highest grades of domestic and imported grasses used in lawn work. It comes up quick and grows like magic, giving a continuous green turf throughout the season. The soil should be well prepared with a surface of black earth or some well rotted manure mixed in the soil and sown as early in the spring time as you can have the ground prepared. Sow at the rate of one pound to every 500 square feet. Remember that this is our own blend and sold only by ourselves at our Seed Store, 316 Pearl Street. **Per lb., 50c; 5 lbs. \$2.25; 10 lbs. \$4.25.**

### RESEEDING LAWN GRASS

This is a special blend of grasses for re-seeding the lawn after it is well raked and cleaned in the spring time. It has the effect to liven up an old lawn where the grass shows the effect of age and needs reviving. Sprinkle this seed over the lawn with a liberal application of sheep fertilizer well raked in, early in the spring time, which will bring the desired result. **Per lb. 40c; 5 lbs. \$2.00; 10 lbs. \$3.75.**

**FERTILIZERS. See page 47**



# THE MICHAEL SEED STORE

Auto Phone 2142

New Phone 935-M

J. S. MICHAEL, Manager

316 Pearl St., SIOUX CITY, IOWA.

## INDEX

### VEGETABLE SEEDS

Beans	2
Peas	3
Sweet Corn	4
Beets	4
Mangel, Sugar Beets	5
Cabbage	5, 6
Cauliflower	5
Carrots	6
Celery	6
Cucumber	7
Lettuce	7, 8
Muskmelons	8
Mushroom Spawu	14
Watermelons	9
Onions	10
Onion Sets	10
Pepper	11
Parsnip	12
Pumpkin	12
Radish	11
Spinach	12
Squash	12
Tomatoes	13
Turnips	13
Rutabaga	13
Miscellaneous	
Vegetables	14
Herb Seeds	14

### FLOWER SEEDS

Flower Seed	16 to 20
Asters	16
Zinnia	16
Nasturtiums	15
Sweet Peas	15
Pansy	17
Petunia	17
Perennial flower seed	20

### GENERAL LIST ROOTS, BULBS, PLANTS

Iris	30
Canna Roots	28
House Plants	30
Gladiolus	28
Conservatory Plants	30
Hardy Bulb Roots	29
Tender Bulb Roots	29
Dahlia	27
Peonies	27
Lilies	29
Ferns, Hardy	30
Autumn Bulbs	30
Hanging Baskets	31
Flowering Plants	31
Vegetable Plants	31
Vegetable Roots	31



## THE HOME OF GOOD SEEDS

Bulbs, Plants and Nursery Stock

## THE HOUSE THAT MICHAEL BUILT

**A FRIENDLY TIP:** Plant a home garden this spring. It is a sure cure for spring fever, a healthful exercise and a swat at the High Cost of Living. This applies to the city man, the suburbanite and the farmer too. For the latter it is a boon. Any farmer can save \$500.00 a year with a good home garden.

**CATALOG:** In handing you our new catalog we wish to express our thanks and appreciation and good will in days gone by.

**VEGETABLE AND FLOWER SEEDS:** We carry a full line of these seeds and they are the best the country affords. Purest quality, of strong germination, grown and carefully selected for us by special growers; men who exercise the greatest care to have the seeds choice, pure and reliable.

**CLOVER AND GRASS SEEDS:** Our field and grass seeds are of superfine quality, extra re-cleaned, pure, free from foul and obnoxious weed seed as it is possible to render them by the best process of re-cleaning.

**NURSERY STOCK:** Our cellar arrangements for handling nursery stock surpasses anything in the country for keeping this stock in just as nice shape after it is dug up in the spring time and brought to our house as if it was just dug out of the ground when the purchaser comes to get it. We call your attention to page 32 for the Nursery Department.

**DISCLAIMER:** While we exercise the greatest care to have all seeds pure and reliable, it is positively understood we sell no seeds, plants, bulbs or nursery stock with any warranty expressed or implied in any respect and will not be in any way responsible for the crop.

## INDEX

### GRASS SEEDS

Alfalfa	21
Clovers	21
Sweet Clover	21
Red Top	22
Bromus Inermis	22
Ky. Blue Grass	22
Eng. Blue Grass	22
Orchard Grass	22
Rye Grass	22
Timothy	22
Millet	23
Cane Seed	23
Sudan Grass	23
Feterita	23
Oats	23
Rye	24
Barley	24
Speltz	24
Flax	24
Potatoes	25
Rape	24
Soy Beans	24
Buckwheat	24
Seed Corn	26
Wheat	24

### NURSERY DEPARTMENT, 32

Apples	32
Cherries	35
Currants	36
Plums	34
Pears	34
Gooseberries	35
Buffalo Berries	35
Grapes	37
Blackberries	38
Raspberries	38
Strawberry Plants	36
Roses	42-43
Ornamental Shrubs	39
Ornamental Trees	47
Shade Trees	42
Climbing Vines	41
Hedge Shrubs	41
Weeping Trees	42
Evergreens	45
Seedlings	46

### SUNDRIES

Insecticides	46
Fertilizers	46
Poultry Foods	48
Animal Foods	48
Sprayers	48
Seeders	48
Garden Implements	48
Inoculations	47

# The Michael Seed Store

J. S. MICHAEL, Manager

316 Pearl Street, Sioux City, Iowa

Auto Phone, 2142

Iowa Phone, 935-M

## Prices and Description VEGETABLE SEEDS

BEANS, PEAS AND SWEET CORN come first—other SEEDS in alphabetical order.

NOTICE—Prices quoted are f. o. b. Sioux City, Iowa. If ordered sent by mail, add 10c per pint, 15c per quart or 8c per pound to catalog prices.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

All prices quoted are subject to stocks on hand and market fluctuation.

### Beans

Beans are very sensitive to both cold and wet. It would be useless to plant them until the ground is warm. They can be safely planted first when the apple is in bloom. For garden culture make your rows about 18 inches apart and 8 inches apart in the rows. One quart plants about 100 foot rows. Special price on application in 50 or 100 lbs.

**Golden Wax** The old standard wax sort. Productive and early with yellow semi-round pods of good quality. Improved Golden wax also at same prices. Prices: ¼ lb. 10c; ½ lb., 20c; 1 lb. 30c; 10 lbs. \$2.75.

**American Black Wax** The old standard Black Wax Bush Bean. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked. Prices: ¼ lb. 10c; ½ lb. 20c; 1 lb. 30c; 2 lbs. 55c; 10 lbs. \$2.75.

**Davis White Wax** A new, white, rustless, productive, wax-podded bean; pods flat, very long, white waxy color, and handsome; seeds clear white. Price: ½ lb., 15c; 1 lb., 25c; 10 lbs., \$2.25.

**Stringless Green Pod** The earliest and hardiest of all green podded sorts; large, handsome pods, some of which measure six inches in length. Very productive, bearing profusely the beautiful green pods, perfectly round, straight; broad, tender, brittle, fleshy and entirely stringless. Prices: ¼ lb. 10c; ½ lb. 15c; 1 lb. 30c; 15 lbs. \$3.50.

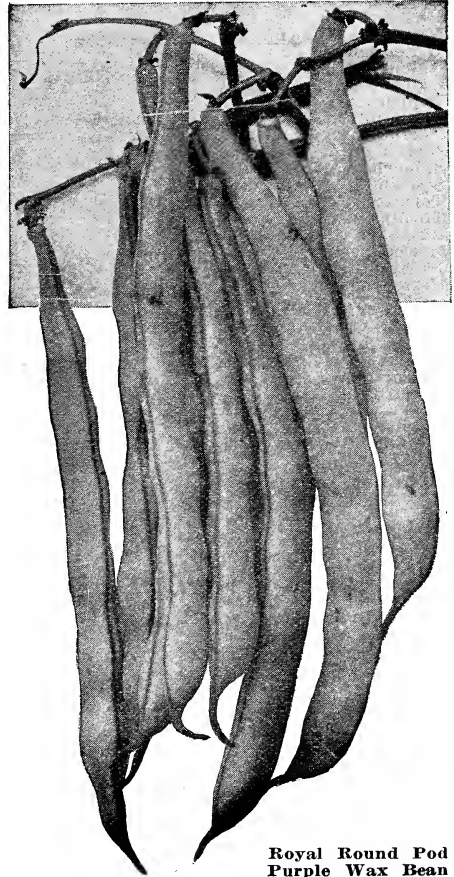
**Extra Early Round Pod Red Valentine** For Snaps there is nothing superior to this dwarf green-podded sort, both for the home and market garden. Many prefer it to the wax varieties. Pods medium length, curved cylindrical, with crease in back, very fleshy, crisp and tender. Price: ½ lb. 15c; 1 lb. 25c; 15 lbs. \$3.50.

**Improved Dwarf Lima** A true bush form of the large White Lima, a circular bush 15 to 20 inches high, self-supported by its own thick stems. Unsurpassed in productiveness and quality of its large, handsome pods. Price: ¼ lb. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. \$3.50.

**Large White Lima** Vine, tall growing, requires poles or support, pods borne in clusters, long, broad, very thin, dark green; seed very large, oval, flat, greenish white. Price: ½ lb., 15c; 1 lb., 30c; 10 lbs., \$2.50.

**Kentucky Wonder, or old Homestead.** Pole variety long, flat green pods, seven to nine inches in length, fleshy and stringless. Heavy yielder. Excellent for snap beans. Price: ¼ lb. 10c; ½ lb. 15c; 1 lb. 30c; 10 lbs. \$2.75.

**Field Bean** White. The finest white field bean, a heavy yielder in all sections of the country. Price: 1 lb., 15c; 10 lbs., \$1.00; per 100 lbs., \$8.00. Bags extra.



Royal Round Pod  
Purple Wax Bean

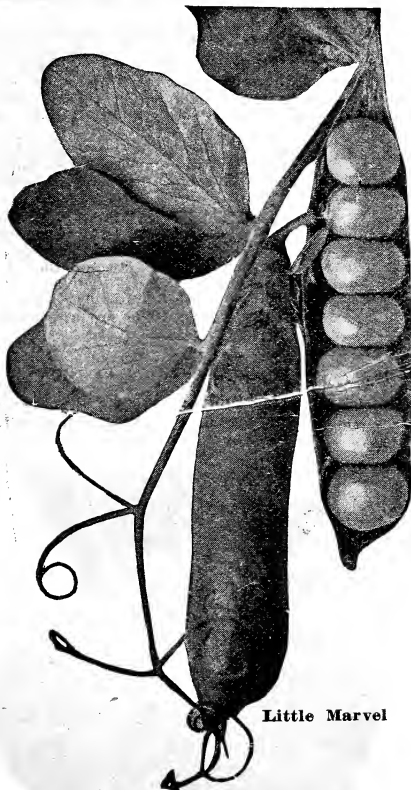
**Royal Round Pod Purple Wax Bean** We are offering this season as a specialty this splendid wax bean. It has proven itself to be one of the very best of all the wax sorts. The plants are good size without runners; leaves are dark green. Pods are very round and deep yellow in color, very brittle, stringless, without fibre, and unsurpassed in quality. For the market gardener who wants a first class round podded wax bean, this is one of the best that has ever appeared. Price: ¼ lb. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.50.

## PEAS

Peas are among the earliest seeds that can be planted at the close of winter. The round, smooth sorts are the hardiest and are often planted without danger before the frost is out of the ground. The wrinkled sorts are not so hardy and cannot with safety be planted quite so early; but plant all kinds as early as possible and plant on a warm, quick, rich soil. Peas will mature earlier if planted only an inch deep. Where earliness is most important they should not be planted deeper, but larger pods and more of them may be had by deeper planting. Dwarf varieties are planted in rows 15 inches to 2 feet apart. Two quarts of seeds sow a hundred yards of rows.

**Alaska or Earliest of All** The vines are of medium height and of distinctive light color. The pods are of good size, about two and one half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. This sort matures all of its crop at once and is an invaluable variety for market gardeners and canners. Price:  $\frac{1}{2}$  lb. 15c; 1 lb. 30c; 10 lbs. \$2.75.

**Ferry's First and Best** The earliest and most even, extra early peas in existence, maturing well together. Price:  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.



Little Marvel

**Little Marvel** New improved variety lately introduced. The most valuable home garden variety yet introduced, very early, large podded and a great cropper, 18 inches high, pods very dark green, produced in pairs and always well filled. Price:  $\frac{1}{4}$  lb. 10c;  $\frac{1}{2}$  lb. 15c; 1 lb. 30c.

### Michael's Early June Pea



**Michael's Early June Pea** This is actually the earliest pea known. Being a dented solid berry, it will stand planting two weeks earlier than the wrinkled varieties without injury from weather conditions which hardy quality gives it an extra early start. The berry is bluish green in color; vines grow about knee high and good averaged size pod; well filled and of a very rich quality. Price per  $\frac{1}{4}$  lb. 10c;  $\frac{1}{2}$  lb. 15c; 1 lb. 30c; 10 lbs. \$2.50.

### American Wonder

Somewhat similar to Nott's Excelsior, a very early wrinkled pea; very dwarf.

Pods quite large, but not many to a vine. Price:  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 10 lbs. \$2.50.

**Little Gem** Probably the best known and most widely grown second early. It comes in following the first earlies, grows about 15 to 18 inches high and bears heavily of large, plump pods. The peas are wrinkled and very sweet. Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 30c; 10 lbs., \$2.50.

**Nott's Excelsior** A very sweet, very dwarf, early pea, small bush, about 15 inches high. Bears very heavily in a favorable season, but subject to weather conditions more than the smooth peas. Very high quality. Price:  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 10 lbs. \$2.50.

**Harvester** This handsome wrinkled pea is the largest of the dwarf varieties and almost identical with the Laxtonian. The pods are dark green, about four inches in length and of splendid quality; early in season; vines vigorous and productive; average 15 to 18 inches high. Price:  $\frac{1}{2}$  lb., 20c; 1 lb., 35c.

**Telephone** The Telephone is medium early in season, bears a long time; the pods are always of good size, well filled and the quality is of the very best. Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 10 lbs., \$2.00.

**Champion of England** The best late season tall pea. One of the oldest varieties of peas. There is no sweeter pea than the Champion of England. The vines grow almost 5 feet high, are very vigorous and produce a heavy crop of good sized pods filled from end to end with luscious peas. Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 10 lbs., \$2.25.

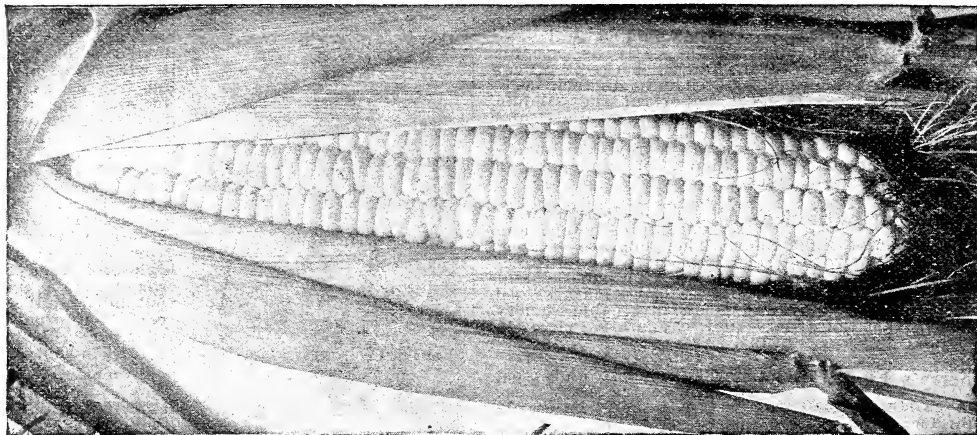
**Marrowfat (Late)** One of the oldest and best known peas. A great yield of ordinary quality peas. Price: 1 lb., 20c; 10 lbs., \$1.75.

**Edible Pod Pea** This class of pea is but little known. They have a sweet, brittle, succulent pod, and can be used same as snap beans, cooking both pod and pea together. Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 25c.

**Canada Field Pea** A splendid crop to sow with oats or barley for green feed. Will produce a crop and enrich the soil at the same time. Succeeds well almost anywhere and is very prolific. Price: 1 lb., 15c; 15 lbs., \$1.75; Per 100 lbs., \$7.50. Bags extra.

## SWEET CORN

**DON'T PLANT SWEET CORN DEEP**—Sweet Corn should not be planted over one inch deep; most people plant two or three inches deep—most sure to rot. Also do not plant too early... Not as early as field corn.



Golden Bantam

**Golden Bantam** A new variety of sweet corn; the richest and sweetest of all corns. It may be planted thickly and as late as July 15 with splendid results for table use as green corn. Price: ½ lb. 10c; 1 lb. 20c; 15 lbs. \$2.50.

**White Mexican** Originated at Sioux City. Early as the Extra Earlies and far sweeter than any of them. Price: 1 lb., 20c; 15 lbs., \$2.25.

**Country Gentleman** This variety frequently has four good sized ears, while the average is three to a stalk. The cob is very small, giving good kernels of pearly whiteness. It is without doubt the sweetest and most tender of all sweet corn. Price: ½ lb., 10c; 1 lb. 20c; 10 lbs. \$2.00.

**Michael's Improved Evergreen** This is an improvement over Stowell's. Deeper kernels and a sweeter roasting ear. Earlier and will last a long time in a green and tender condition. The ideal variety for market gardeners. Price: ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.

**Minnesota Early** The best and most popular of the older varieties, having eight rows of very sweet and tender kernels. Price: ½ lb., 10c; 1 lb., 15c; 15 lbs., \$2.00.

**Stowell's Evergreen** The standard big late corn. Good, big ears, sweet and solid, and heavy yielder. Stays green and tender for a long time. Price: ½ lb. 10c; 1 lb. 15c; 10 lbs. \$1.40.

**Sweet Corn for Fodder** Good vitality; early or late. Price on application.

## TABLE BEETS

For earliest use sow seed of any round sort. Seed for main crop may be sown as soon as the ground can be gotten in proper condition. For table beets sow in drills 18 inches apart, and thin to stand 3 to 4 inches apart in the row. Use 1 ounce to 200 feet of drill and cover lightly; 5 to 6 lbs. per acre. Round and turnip shaped beets are the best for spring and summer; the half long kinds for winter. For sugar beets and mangels make the rows 2½ to 3 feet apart, and sow 6 to 8 pounds per acre. A light, loamy soil is best for all beets.

**Early Wonder** A rather new variety of recent introduction and one of the earliest Beets known, almost round leaves, small, very dark rich crimson color. Price: ½ oz. 10c; oz. 15c; ¼ lb. 25c; ½ lb. 75c.

**Extra Early Flat Egyptian** An early variety. The tops are small and the beets are round on top, but flat at bottom end. The color of flesh is light red. Price: oz. 10c; ¼ lb. 25c; ½ lb. 35c; 1 lb. 50c.

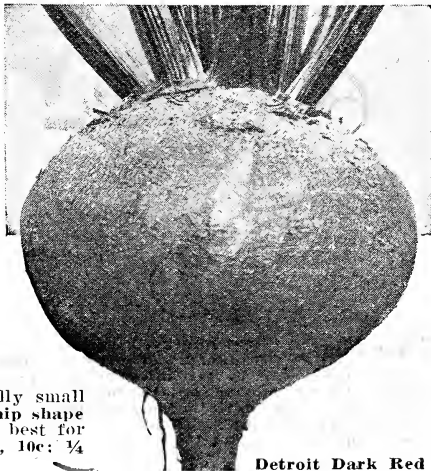
**Crosby's Egyptian** A variety of beet which has nearly supplanted the original Egyptian and is more desirable because of its shape and fine quality. It is extremely early. Price: oz. 10c; ¼ lb. 25c; ½ lb. 40c; 1 lb. 65c.

**Swiss Chard, or Spinach Beet** The leaves of Swiss Chard are used as greens, cooked in the same manner as Spinach. Price: oz. 10c.

**Half Long Blood** Dark Red flesh. Price: oz. 10c; ½ lb. 30c; 1 lb. 50c.

**Long Smooth Dark Blood** Price: oz. 10c; 2 ozs. 15c, ½ lb. 30c.

**Detroit Dark Red** A grand beet with tops exceptionally small and up right; roots are perfect turnip shape with small tap root. Color dark blood red. One of the best for market gardener and the home gardener. Price: 1 oz., 10c; ¼ lb. 25c; ½ lb. 35c; 1 lb. 50c.



Detroit Dark Red

## Half Sugar Mangel Wurzel



### The Best for Stock Feeding

A strain of beets very desirable for stock feeding, affording not only a very large crop much easier to harvest than other sorts, but much richer in sugar and other nutritive elements growing out of the ground. Can be harvested easily. Price: 1 lb., 50c; 10 lbs., \$4.00.

## Mangel Wurzel

### Mammoth Long Red

This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage; skin bright red; flesh white, with veined rings of rosy-pink. Price: oz., 10c; ½ lb., 25c; 1 lb., 45c, postpaid.

### Golden Tankard

Best for dairy farming. It is of rich, deep yellow throughout. Early, hardy and a heavy cropper. Price: oz., 10c; 1 lb., 50c; 5 lbs., \$2.25.

## Sugar Beets

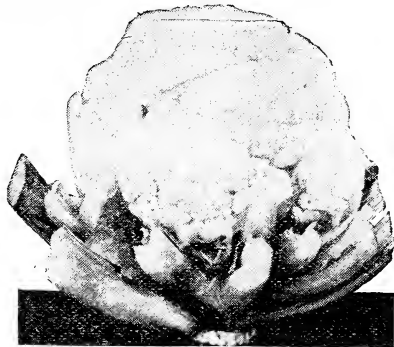
Sugar Beets may be grown in any tillable soil that is capable of producing good crops of vegetables. A few rows of Sugar Beets in the garden will be sufficient for a supply of syrup for home use. A bushel of Sugar Beets will produce about a gallon of syrup. Splendid for stock food.

**White French Sugar** Price: oz., 10c; ¼ lb., 25c; 1 lb., 60c.

Write for U. S. Department of Agriculture for Farm Bulletin No. 823.

## Cauliflower

One ounce of seed will produce about 3,000 plants.



Cauliflower (Danish Grown Seed)

**Early Snowball** Esteemed for its earliness and its heading qualities, producing large, solid, pure white heads; dwarf in habit and as early as any; one of the best sorts for forcing. Price: Pkt., 15c; ¼ oz., \$1.00; ½ oz., \$1.50; oz., \$2.50.

**Danish Giant** One of the finest late varieties of robust habit; heads large, compact and thoroughly protected by leaves. Price: pkt., 15c; ¼ oz., 80c; ½ oz., \$1.50; oz., \$2.50.

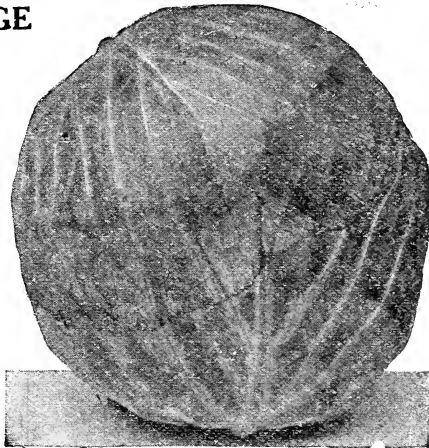
## CABBAGE

**Culture.** The Cabbage is a great feeder and well repays heavy manuring and high culture. It succeeds best on well drained soil. Early cabbage may be started in early spring in a hotbed. For main crop, summer and autumn cabbage, the seed should be sown in a rich bed in the open air in May or June. Sow shallow; 1 oz. of seed to 4,000 plants, 3 to 4 ozs. for an acre. Set the plants 2 to 3 feet apart each way. Give frequent cultivation.

**Early Spring Cabbage** The earliest flat head. As early as Jersey Wakefield. Yields more than the early pointed heads. Solid, uniform and finely grained. Price: ½ oz., 15c; oz., 25c.

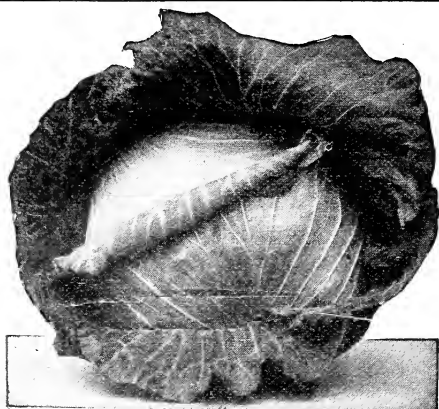
**Early Jersey Wakefield** Considered by many gardeners the very best early variety. Of large size for so early a kind. Heads hard and solid, and have few outside leaves. Our seed is extra select highest quality. American grown. Price: ½ oz., 10c; oz., 20c.

**Danish Ball-Head** (120 days) (Dutch Winter or Hollander). The heads are of medium size, solid and deep, averaging in weight nearly eight pounds. Their quality is superior and they are just as solid in spring as when put away in the fall. Price: ½ oz., 10c; oz., 20c; ¼ lb., 75c; 1 lb., \$2.50.



## New Early Cabbage

**Copenhagen** An entirely new type of early cabbage. As early as Early Jersey Wakefield, as large as All Head, solid and better quality than either. Price: ½ oz., 15c; oz., 25c; ¼ lb., \$1.00; 1 lb., \$3.00.



All Head Early

**All Head Early** All Head Early is of special value because of close adherence to the type in habit of growth and the shape and quality of the head. Head large, very solid and flat. Quality excellent. By planting late it can be used also as a winter cabbage. Price:  $\frac{1}{2}$  oz., 10c; oz., 20c;  $\frac{1}{4}$  lb., 75c.

**Early Flat Dutch Cabbage** A valuable second early sort, with good size, solid heads; sells well and are good keepers. Price:  $\frac{1}{2}$  oz., 10c; oz., 20c;  $\frac{1}{4}$  lb., 75c.

**Henderson's Early Summer** An excellent second early cabbage. Same as All Head. Price: See All Head.

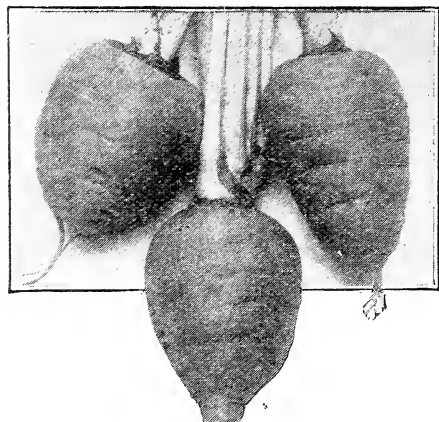
**Henderson's Succession** An excellent variety of large, flat head maturing in midsummer. Same as All Head. Price: See All Head.

**Premium Late Flat Dutch** This old and well-known variety is still the standard winter kind. Heads large, solid and first-class keeper. Price:  $\frac{1}{2}$  oz., 10c; oz., 20c; lb., \$2.50.

**Late Drumhead** A very deep, solid, sure heading variety, which in rich soil will grow to a very large size; solid and excellent flavor. Price:  $\frac{1}{2}$  oz., 15c; oz., 25c; lb., \$2.75.

**Haco** The earliest of all Red Cabbage... The best large red cabbage. A sure head of good red color to the center. Price:  $\frac{1}{2}$  oz., 50c; oz., 75c.

For Cabbage Plants see page 21.



Oxheart Carrots

## CARROTS

Carrots require a deep, well worked soil. Plant in rows 15 inches apart for table sorts; cover  $\frac{1}{2}$  inch deep. One ounce plants 50 feet. Carrots are excellent for stock, especially for horses. Sow any time before July 1st in rows 24 inches apart. Thin to 6 inches in the rows; two pounds of seed to the acre. Store in winter the same as turnips. For feeding stock grow the White or Yellow Belgian, which yields big crops.

**Oxheart or Guerande** We do not hesitate to call this the most valuable variety in existence. It is intermediate between the Half Long and Horn varieties, attaining a diameter of 3 to 4 inches at the neck, of beautiful shape and rich orange color. It is excellent for hogs and other live stock and has yielded 1,200 bushels per acre. Price: oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Earliest Short Horn** (French Forcing). This variety is small, reddish-orange, of globular shape and excellent flavor. Price: oz., 15c; 3 ozs., 35c;  $\frac{1}{2}$  lb., 75c; lb., \$1.50.

**Danvers Half Long** A popular standard variety of rich, dark, orange color. Very smooth and handsome. In form halfway between Oxheart and the Long Orange, and wonderfully productive. Price: oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Chantenay Half-Long** Resembling the Danvers, with larger shoulder. Medium early and heavy cropper. Price: oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.

**Improved Long Orange** A well-known sort, roots long, thickset near the crown, tapering regularly up to a point, color deep orange. Price: oz., 10c; 2 oz., 15c;  $\frac{1}{2}$  lb., 40c; lb., 75c.

**Large Yellow Belgian** Used for feeding cattle; grows large and is very productive. Price: oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c; 5 lbs., \$3.00.

## Celery

One ounce will produce 5,000 plants.

**Celery...** Celery seed is slow to germinate and ample time must be given. Sow thinly and cover lightly keep constantly moist. Count on about 4,000 plants per ounce of seed. When the seedling plants are 3 inches high they should be clipped at the top. Favor stock growth or else transplanted.



## White Plum Celery

The earliest celery. The easiest to grow, as it blanches without even earthing up. Price:  $\frac{1}{2}$  oz. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**Giant Pascal** A superior keeping sort. The stalks are very large, solid, crisp and of rich nutty flavor; it blanches very easily and retains its freshness a long time. Price:  $\frac{1}{2}$  oz. 10c; oz. 15c;  $\frac{1}{4}$  lb. 75c.

**Golden Self Blanching** The leading early variety. Stalks are broader and heavier than those of White Plum, and superior in quality, while it is only a little later. Price:  $\frac{1}{2}$  oz., 15c; oz., 25c; lb., \$2.50.





The Davis Perfect Cucumber

## CUCUMBERS

Cucumbers thrive best on warm, rich, sandy soil, the richer the better. Crop should never be planted until soil is warm and the trees are out in full leaf. Plant in hills 4 feet apart and thin to about 4 plants to the hill. Second planting about the middle of July for fall. One ounce for 50 hills.

**The Davis Perfect Cucumber** An excellent new cucumber for both outdoor use and forcing. It is a most carefully selected strain of the White Spine type. It is slim, slightly pointed, a dark glossy green color, very tender, brittle and of fine flavor, vigorous grower, withstanding blight and disease better than other sorts. Price: oz., 15c; 3 ozs. 40c; lb. \$1.75.

**Improved Early White Spine** An excellent variety which produces an early crop of cucumbers. The fruits are straight, light green, with white spines. Price: oz. 10c; 3 ozs. 35c; lb. \$1.50.

**Early Cluster** Vine vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A hardy and very productive sort. Price: oz., 10c; 3 ozs. 25c; lb. \$1.00.

**Early Frame Short Green** This variety is an excellent sort, both for table use and for pickling. Plants very vigorous, fruit straight, a little smaller at the ends, bright green, light at the blossom end. Comes into condition for use a little later than the Early Cluster. Price: oz. 10c; 3 ozs. 25c; lb. \$1.

**Boston Pickling** A distinct and very productive variety extensively grown for pickles. The fruits are of medium size, very smooth, symmetrical and bright green. Price: oz. 10c; 3 ozs. 25c; lb. \$1.00.

**Improved Long Green** (Jersey Pickle). Fruits are long, firm and crisp. The small fruits are used for pickles and larger ones are excellent for slicing. The vines make a strong growth and are very productive. Price: oz., 15c; 3 ozs., 35c; lb., \$1.50.

**Klondike Cucumber** This variety is one of the best for slicing. The color is rich, dark green, and the fruits grow to a uniform size, measuring about 7 inches in length and 2 inches thick when in good condition to use. Price: oz. 10c; 3 ozs. 25c; lb. \$1.50.

## LETTUCE

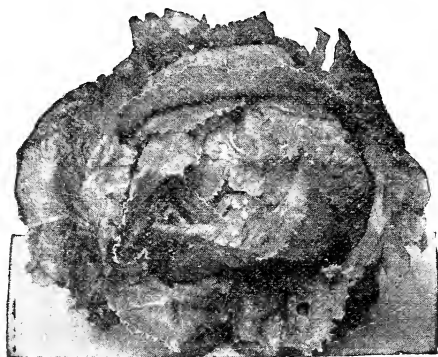
**Culture.** Lettuce, to be at its best, should be grown rapidly, hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as necessary. For general crop, sow outdoors as early in the spring as the ground can be worked, in drills 18 inches apart, and thin young plants to 4 inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cutting may be had from the same ground.



Black Seeded Simpson

**Black Seeded Simpson** Nearly double the size of an ordinary Curled Simpson. Stands summer well without becoming tough or running to seed quickly. By far the most popular variety for greenhouse forcing, making large handsome heads in a very short time. Price: oz., 10c; ¼ lb., 35c; lb., 75c.

**Grand Rapids** (Seed black). A lettuce for greenhouse forcing, quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. Will stand shipping long distances better than most sorts. Price: oz., 10c; ¼ lb., 35c; lb., 75c.

**Big Boston**

**Big Boston.** A (Seed White). Popular for outdoor culture, a compact, large heading sort. Plants large, very hardy and vigorous; leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp, color bright light green, the head slightly tinged with reddish brown. Price: oz., 10c; ¼ lb. 35c; lb. \$1.00.

**New York** This is one of the finest head lettuce now being grown, extra tender and very brittle. While not as early variety as some it is one of the best for the garden or market. If you are fond of good lettuce don't fail to sow some of this excellent variety. Price: oz. 15c; ¼ lb. 60c; lb. \$2.50.

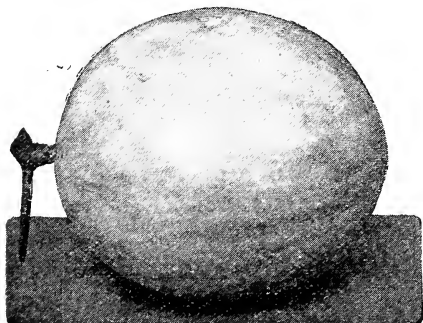
**Early Prize Head.** B (Seed White). A large clustering, non-heading lettuce. The most easily grown variety in cultivation. The leaves of the variety are crimped, bright green tinged with brownish red, very tender and sweet. Price: oz., 10c; ½ lb., 40c; lb., 75c.

**Early Curled Simpson** White seeded. One of the best of the leaf lettuces. Quite similar to Early Curled Silesia. Price: oz. 10c; ½ lb., 40c; lb., 75c.

**Hanson** Leaves are curly and tender and form a head as large as an early cabbage. Slow to run to seed. Creamy white inside. Price: oz. 10c; ½ lb., 40c; lb. 75c.

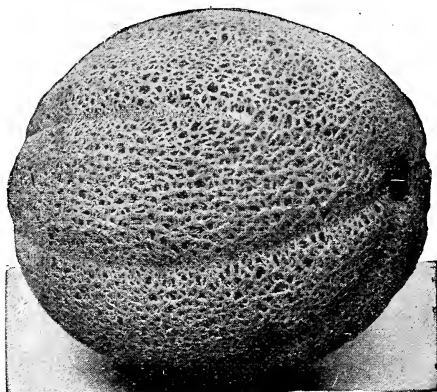
## MUSKMELON SEED

Culture. Plant seeds in hills 4 to 6 feet apart each way, after danger of frost is over. Use well rotted manure in the hills. One ounce of seed to 50 hills; 2 to 3 pounds to the acre. A light warm soil is best. In hoeing, draw the soil well up to the plants. Fight bugs with tobacco dust and slug shot.

**Honey Dew**

**Honey Dew** The skin is a very delicate yellow: surface almost perfectly smooth. The rind is thin, the flesh is very thick and in color blends from a near white at the rind to the daintiest of emerald green at the seed cavity. The flesh is crisp and delicious, very sweet, juicy and possesses a honey flavor, very pleasing to the palate. Price: ½ oz., 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

**"Hoodoo" Melon** (Introducer's Strain). A new orange fleshed variety of the finest quality. Very vigorous, remarkably blight resisting and very productive. Fruits small and of uniform size. Netting exceptionally fine and dense. Flesh very thick. Price: oz., 15c; ¼ lb. 50c; lb. \$1.50.

**Rocky Ford**

**Rocky Ford** (Netted Gem). The flesh is deep and thick, and light green in color. The flavor is exceedingly fine. The skin is regularly ribbed and thickly netted. It is a heavy cropper, and in wide favor as a market melon. Our seeds are saved from a field in which only seed melons are grown. Very dependable. Price: oz. 10c; ½ lb. 60c; lb. \$1.00.

**Emerald Gem** One of the sweetest melons in cultivation: smooth skin, deep salmon colored flesh; early and prolific. The ideal home melon. Price: ½ oz. 10c; oz. 15c; ½ lb. 75c; lb. \$1.25.

**Extra Early Hackensack** Ten days earlier than the old Hackensack. Flesh light green and excellent in flavor. Price: oz. 15c; ½ lb. \$1.00; lb. \$1.25.

**Hackensack or Turk's Cap** The very largest of all the nutmeg sorts. The fruits are round, flattened at the ends and have very broad ribs. Flesh is green, fine quality. Price: oz., 10c; ½ lb., 60c; lb., \$1.00.

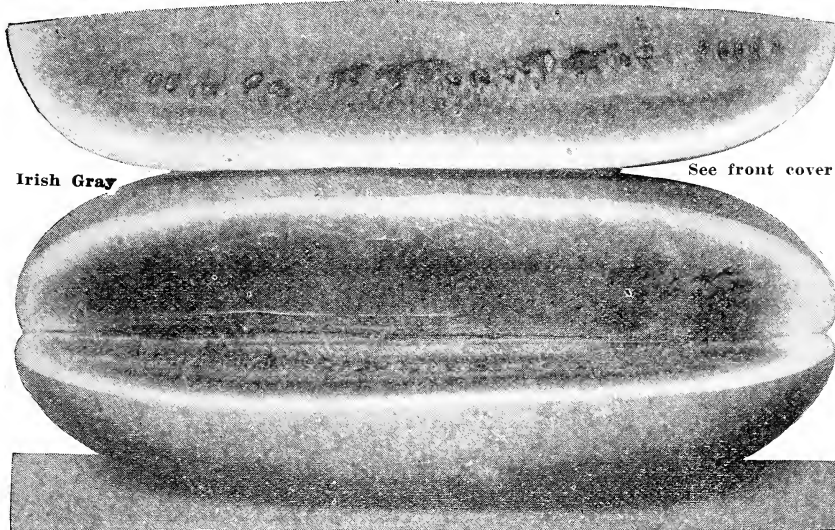
**Osage** (Salmon and Green). Medium to large sized, oval, slightly ribbed, dark green in color. Flesh is deep salmon color and very thick. Covered more or less with shallow netting. Price: oz. 10c; ½ lb. 75c; lb. \$1.50.

**Early Citron Landreth's** Very early half flat sort. Flesh green, of fair quality. Price: oz., 10c; ½ lb., 60c; lb., \$1.00.

**Banana** Cucumber shape. Delicious odor. Rather late maturing. Price: oz., 10c; ½ lb. 60c; lb. \$1.50.



## WATERMELON SEED



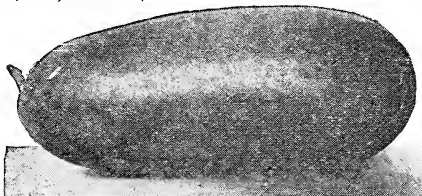
Ask or write for special price in large quantities.

**Culture.** The essential thing in melon culture is to get good strong vines early in the season. To this end plant your melons in hills 8 feet apart, made rich with some good fertilizer or well rotted manure thoroughly mixed with the soil. As soon as the ground is warm and dry plant 15 to 20 seeds in each hill, and thin out when the plants begin to grow, leaving only 3 to 5 of the most vigorous. Protect the young plants from insects and hasten their growth by the use of liquid manure. From 3 to 5 pounds plant an acre. Fight bugs with slug shot and tobacco dust.

One ounce will plant 50 hills and four pounds will plant one acre.

**Irish Gray** The old ones go and the new ones come—sometimes the same old girl with a new dress, and then again something grander than ever appeared before—as for instance the Honey Dew in Muskmelons, we now have the **IRISH GRAY** in Watermelons. A superb new sort just out. Bright, sparkling red flesh, sweet, firm, with a yellowish gray rind. For the home it's better and sweeter than Kleckley's Sweet; has a tough rind; better than Tom Watson and outyields either of those a half more. It's the thing to catch the market with. Price: oz., 10c; ¼ lb., 35c; lb. \$1.00; 5 lbs., \$4.00.

**Monte Cristo or Kleckley's Sweets** Unsurpassed for home use or near markets. Melons of medium size, oblong, tapering slightly towards the stem end; dark green. Flesh very bright rich red, exceedingly sweet. Price: oz., 10c ½ lb., 40c; lb. \$1.00; 5 lbs. \$4.00.



Monte Cristo or Kleckley's Sweets

**McIvor's Wonderful Sugar** (90 days). This is becoming the most famous melon for sweetness and high quality. The melons are long, averaging about 35 lbs. each. Rather light colored, irregularly striped and mottled with dark green. The rind is thin, but tough, so that it is a good shipper. Flesh is delicate, light red, entirely stringless, very tender, juicy and luscious. Price: oz., 10c; ½ lb. 60c; lb. \$1.00; 5 lbs. \$1.00; postpaid.

**Cole's Early** The earliest watermelon in cultivation. Can be grown in all Northern states. Black seed, rich red flesh. Price: oz., 10c; ½ lb., 40c; lb., 75c.

**Halbert Honey** A variety somewhat similar to Kleckley Sweets.

**Georgia Rattlesnake** Oblong, dark and striped; bright red flesh.

**Peerless or Ice Cream** Very early; red flesh; good home melon.

**Sweet Heart** Mottled light green; large, oval, heavy; red flesh; fine shipper.

**Cuban Queen** Early, solid and heavy; skin striped dark and light green.

**Kolb Gem** Very large; flesh red; a good shipping sort; popular in the South.

**Green Citron** (Red seed). Round and handsome; for preserving only.

Above varieties not priced we quote as follows: Price: oz., 10c; ½ lb., 40c; lb., 75c; in 5-lb. lots and over, 60c per lb.

**Tom Watson** A large, oblong melon, the skin of which is dark green. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. Price: oz. 10c; ½ lb. 40c; lb. 75c.



Tom Watson

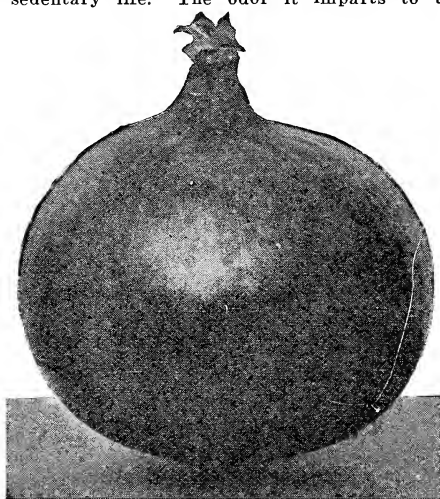
## ONION SEED

The onion not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The odor it imparts to the breath may be avoided by thorough cooking.

In onion culture, thorough preparation of the ground, careful sowing and the best of after culture, though essential, avail nothing unless seed of the best quality be used.

Sow the seed as soon as the ground can be gotten ready, and it can be done best with a Planet Jr. hand seed drill adjusted to sow the desired quantity of seed about one-half inch deep. The quantity needed will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding. Four to five pounds per acre is the usual quantity needed to grow large onions.

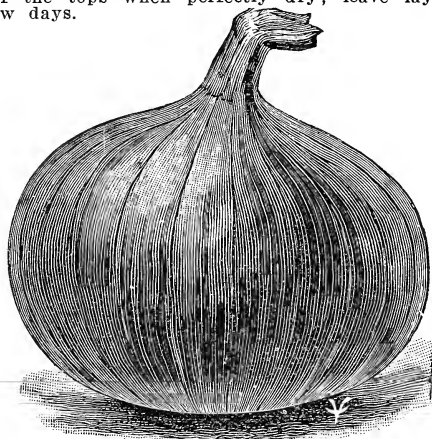
**Gathering.** As soon as the tops die and fall the bulbs should be gathered into windrows. Cut off the tops when perfectly dry; leave lay a few days.



Southport Red Globe

**Southport Red Globe** On account of its beautiful shape and rich red color, these onions bring a premium in any market and is an excellent keeper. The seed we offer is grown from true type bulbs. Subject to test before planting and if not absolutely satisfactory, money will be refunded. Price:  $\frac{1}{2}$  oz., 10c; oz., 15c;  $\frac{1}{4}$  lb., 75c; lb., \$1.25; 10 lbs., \$11.

**White Globe** This is the largest successful pure white onion in cultivation. Perfect globe shaped, very solid; keeps well and always brings the top of the market. Price:  $\frac{1}{2}$  oz., 10c; 1 oz., 20c;  $\frac{1}{4}$  lb., \$1.25; lb., \$2.25.



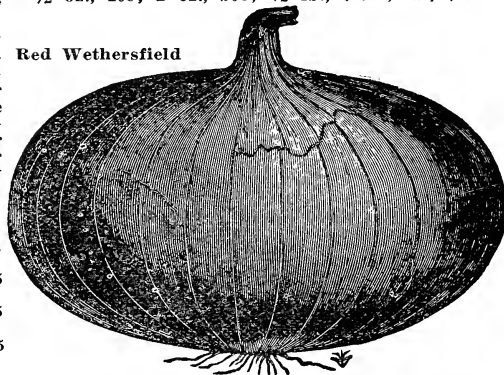
Ebenezer

**Ebenezer Onion** This is a variety of onion of recent introduction. It originated in a Mennonite Colony near Buffalo, New York. It was bred, it seems, from the multiplying variety of onions; on that account the foliage is not so pronounced and vigorous as other varieties, the strength of growth going into the formation of the bulb rather than the top. Produces onions of unusual size, very heavy yielder and superior to almost any variety known for keeping qualities. In appearance it is slightly globular with a rich yellow straw color. Price: 35c per oz.; \$1.00 per  $\frac{1}{4}$  lb.; \$1.75 per  $\frac{1}{2}$  lb.; \$3.00 per lb.

ONIONS—	$\frac{1}{2}$ oz.	1 oz.	$\frac{1}{2}$ lb.
Prizetaker (the largest onion grown; very mild).....	\$0.10	\$0.15	\$0.75
White Silver Skin, round, white, medium.....	.10	.15	1.25
Mammoth Silver Skin, a large, white onion.....	.10	.15	1.25
New Queen, early, small white onion for pickling.....	.10	.15	

**Yellow Globe Danvers** The most extensively used yellow onions. Bulbs of medium size, uniformly globe shaped with small neck and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. Price:  $\frac{1}{2}$  oz., 10c; oz., 15c;  $\frac{1}{4}$  lb., 80c; lb., \$1.50.

Red Wethersfield



**Large Red Wethersfield** The best known of all the onions. Good seller, great keeper, the best of all standard sorts. My stock of this onion seed is most select and sure to grow. Price:  $\frac{1}{2}$  oz., 10c; oz., 15c;  $\frac{1}{4}$  lb., 80c; lb., \$1.50; 10 lbs., \$12.50.

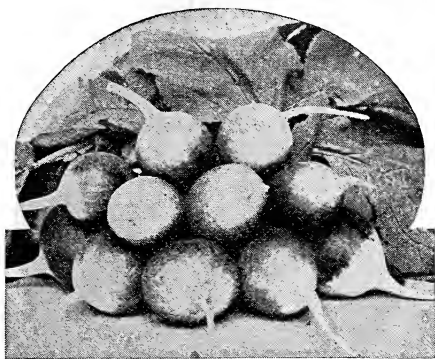
## ONION SETS

Many prefer to grow onions from sets, as they are less trouble and are ready for use earlier than those grown from seed. Sets grown from seed are known as bottom sets. One quart will plant a row 50 feet long. Ten bushels will plant one acre. Multipliers are fine for bunching green. We sell by the pound only. Special prices in large lots on all varieties. Bottom Onion Sets, per lb., 15c; 3 lbs. 40c. Perennial Sets, 10c lb.; 3 lbs. 25c. Summer Top Sets, 25c lb. Multiplier or Potato Sets, 20c per lb. Garlic Bulbs 15c per lb.; 2 lbs. 25c Add 6c per lb., 2 lbs., 8c; 5 lbs., 14c, if by parcel post. Ebenezer Onion Sets, 35c per lb.

**NOTICE—ALL PRICES SUBJECT TO MARKET CHANGES AND STOCKS ON HAND.** When out of any one kind we reserve the right to fill with next best at price of next best.

## RADISH SEED

**SPECIAL PRICES 5 TO 10 LB. LOTS ON ALL SORTS.**

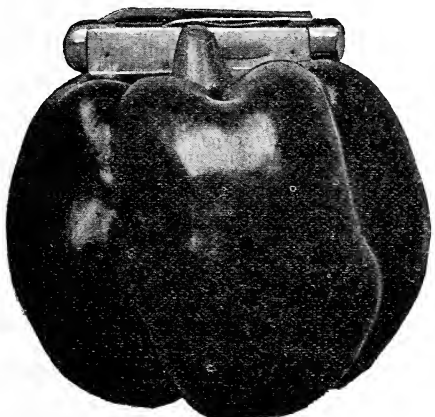


**Culture.** For forcing under glass, scatter evenly over the surface 100 seeds to the square foot and cover with one-half inch of soil, sifted. For open ground culture, sow on rich, sandy soil as soon in the spring as it is fit to work, in drills twelve inches apart and thin out the plants if necessary to prevent crowding. A good dressing of **nitrate of soda** will greatly stimulate growth and insure tender and brittle roots. Successional sowing from one week to ten days apart will keep up a supply. After the hot weather of summer begins it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy as the earlier sorts are apt to do when planted in late summer time. One ounce sows about 50 feet of row.

Remember, a succession is secured by planting seed every ten days.

**Cardinal Globe Radish** This is the best forcing and quickest outdoor radish to date. A new 20-day variety. Remarkable for the small size of its leaves. The flesh is firm, crisp and fine quality, dark red, globe shaped bulbs of even size. Price:  $\frac{1}{2}$  oz., 10c; oz., 15c;  $\frac{1}{4}$  lb., 50c.

**Icicle** The finest eating, a most distinctive Long White Radish... The best eating radish, and the best white variety. This sort has long, slender, pure white roots, which remain mild and crisp until they grow of larger size. Tops are quite short, making it early, and also allowing close planting. A succession is secured by planting seed every ten days. Price: oz., 10c;  $\frac{1}{2}$  lb., 40c; lb., 75c.



**Bull Nose Pepper**

**Scarlet Turnip, White Tipped** One of the handsomest of the turnip radishes and a great favorite in many large markets for early outdoor planting. Roots slightly flattened on the under side, color very deep scarlet with a white tip; flesh white and of the best quality. Price: oz., 10c;  $\frac{1}{2}$  lb., 40c; lb., 75c.

**Early Scarlet Turnip** A splendid extra early, round, bright red radish. Price: oz., 10c;  $\frac{1}{2}$  lb., 50c; lb., 80c. Plant every ten days.

**Early Scarlet Globe** A desirable sort for hot-bed forcing and outdoor planting... Very early; top small. One of the best selling and most attractive radishes on account of its bright scarlet color and handsome shape; flesh white and tender, fit to pull in 28 days. Price: oz., 10c;  $\frac{1}{2}$  lb., 50c; 1 lb., 90c; 5 lbs., \$4.00.

**Crimson Giant** An early sort, looking much like the old **Early Scarlet Globe**, but more perfect in shape. It comes early but keeps on growing and remains tender, solid and sweet until it gets as large as a teacup or larger. Price: oz., 10c;  $\frac{1}{2}$  lb., 60c; lb., \$1.00.

### Radishes

	1 oz.	$\frac{1}{2}$ lb.	lb.
French Breakfast, stump rooted sort	\$0.10	\$0.50	\$0.75
Long Scarlet Short Top	.10	.50	.75
Chartier Half Long White, white bottom	.10	.50	.75
White Strasburg	.10	.50	.75
Early White Turnip	.10	.50	.75

### Winter Sorts

	1 oz.	$\frac{1}{2}$ lb.	lb.
Cal. Mam. White Winter	\$0.10	\$0.60	\$1.00
Rose White Winter	.10	.60	1.00
Black Spanish, round or long	.10	.60	1.00

**Manure Ash Fertilizer** Analyzes 2 per cent ammonia, 8 per cent phosphoric acid and 2 per cent potash, and is manufactured solely with animal and vegetable matter. It is recommended upon actual knowledge of results for home gardens, radishes, truck gardens, potatoes, and most field crops. Price: 4 lbs., 25c; 15 lbs., 50c; 100 lbs., \$3.50.

## PEPPER

(One ounce will produce about 1,800 plants). Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable. Seeds germinate slowly and require considerable heat.

**Chinese Giant** Most gigantic of all Giant Peppers. A fine mild red pepper, of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Price:  $\frac{1}{2}$  oz., 25c; oz., 50c;  $\frac{1}{4}$  lb., \$2.00.

**Large Bell, or Bull Nose** An early standard sort. Price: oz., 40c.

**Red Cayenne** Pods long and slim, of medium size. Pungent. Price: oz., 25c;  $\frac{1}{4}$  lb., 75c.

**Ruby King** Very large size. When ripe they are of a beautiful bright ruby red color. Price: oz., 25c;  $\frac{1}{4}$  lb., \$1.00.

## Spinach

An easily grown plant; the seed may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. Use 8 pounds of seed per acre. For the home garden use one-half ounce for 100 feet of row.



Antvorskov

## New Long Standing Spinach

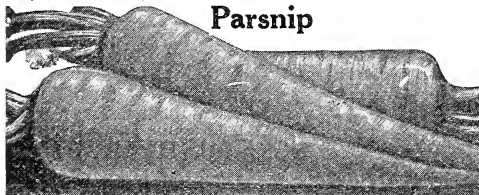
"Antvorskov." (Danish King)

This variety is slower to seed than any other sort. Antvorskov forms quite large tufts, compact and low. The numerous leaves are extra large, broad and rounded, exceedingly bushy, slightly crumpled and of a glossy dark green color. It is vigorous and a rapid grower. It is ready for use practically as early as any Spinach and remains in condition much longer. Oz. 10c; ¼ lb., 25c; 1 lb., 60c; 5 lbs., \$2.50; 10 lbs. \$4.00.

## Bloomsdale Savoy

The variety most generally used. Leaves large, round and thick. Very much savoyed and rich dark green. One of the earliest varieties. Price: oz., 10c; 1 lb., 75c.

## Parsnip

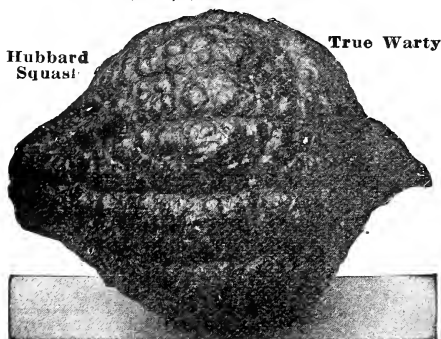


(One ounce will sow 200 feet of drill).

Sow early in spring in good, rich soil, which has been plowed deep. They are improved by frost.

## Improved Hollow Crown

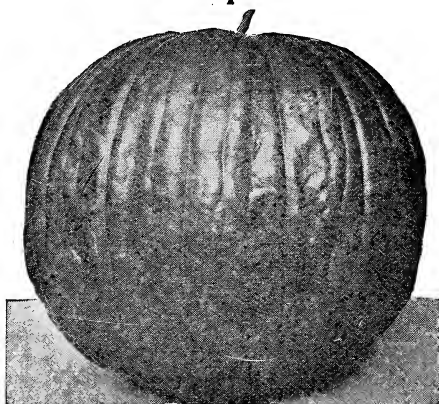
Fine grained and excellent. per oz. 10c; ¼ lb., 30c; 1 lb., \$1.00.



Hubbard Squash

True Warty

## Pumpkin



Sugar Pie Pumpkin

Culture. Plant from May to July in hills 6 feet apart each way. One ounce for 15 hills; two pounds to an acre.

## Connecticut Field or Cow Pumpkin

The big yellow kind that is grown so much in the corn fields. Price: oz., 10c; 1 lb., 75c; 4 lbs., \$2.50.

## Small Sugar

Best of all Pie Pumpkins. Very sweet and tender. Looks like a Yankee Pumpkin, but smaller. Early and prolific. Price: oz., 10c; ¼ lb., 35c; 1 lb., \$1.25.

## Quaker Pie

A very prolific variety; a good keeper and one of the best for pies. Price: oz., 10c; ¼ lb., 40c; 1 lb., \$1.50.

## Green Striped Cushaw

Fruits very large, with crooked neck. Color creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse, but sweet. This sort is very productive and popular in some sections. Price: pkt., 5c; oz., 15c; 2 oz., 25c.

## Squash

### True Warty Hubbard

The standard winter squash. Large, olive-shaped, with dark green skin and very rich flesh. Almost everyone is well acquainted with the Warty Hubbard. Our strain is extra fine and very warty. Price: ¼ lb., 30c; 1 lb., \$1.00.

### Boston Marrow

This is a very productive fall and winter variety of medium to large size, oval shape, and thin skin. It is much used for canning and making pies. The fruits when ripe are bright orange with a shading of light cream color. The flesh is of rich salmon yellow color, finely grained and of excellent flavor, but not as dry as the Hubbard. Price: pkt., 5c; oz., 15c; ¼ lb., 40c.

### Early White Bush

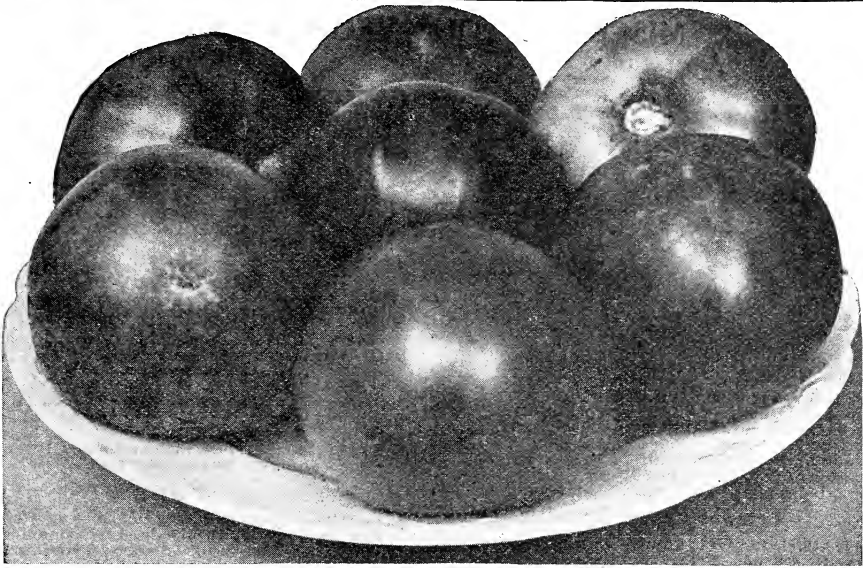
Price: oz., 15c.

### Golden Summer Crookneck

Price: oz., 15c.

### Mammoth Chili

A very large and attractive variety. The skin is a rich orange yellow, flesh thick, fine grained and sweet. Price: oz., 15c; ¼ lb., 50c; 1 lb., \$1.25.



Bonny Best

## SPECIALLY SAVED TOMATO SEEDS

We do not use canning factory seed.

One ounce produces about 2,000 plants. For early crop sow in hotbeds in January or February. For late crop, in open beds in May.

**Culture.** Sow in a hotbed in early spring or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hotbed. Transplant to the open ground when all danger of frost is past, setting the plants three or four feet apart each way. Use Bone and Potash Fertilizer, or well rotted manure in the hills.

**Bonny Best** The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort, and is of superior solidity and interior color. The vines are vigorous and produce a good crop of exceptionally round and deep fruits. One of the best for gardeners whose trade demands fruits of beautiful shape and color. Price: ½ oz., 20c; oz., 35c; ¼ lb. \$1.25; 1 lb. \$3.00.

**Dwarf Champion** A purple fruited variety forming a strong, erect, bushy plant two feet high. Often sold as Tree Tomato. Fruit smooth, medium sized, fairly solid and of good flavor. Desirable for forcing, as it can be planted more closely on the bench than the tall growing kinds. Price: ½ oz., 15c; oz. 25c; ¼ lb. \$1.00; 1 lb. \$3.50.

**Ponderosa** The largest variety in cultivation. Price: ½ oz. 20c; ¼ lb. \$1.25.

**Burbank Tomato** This is a specialty of the famous Luther Burbank and recommended by those people as one of the earliest Tomatoes in the world and excels all other early varieties in Precocity, Solidity, Productiveness, Quality and is Blight Proof. Bulk packet 10c; 1-16 oz. 20c; 1-8 oz. 35c.

**Early Acme** One of the earliest and handsomest varieties. Medium size, perfectly smooth and regular, very solid fruit, borne profusely. Dark red with purplish tint. Price: ½ oz., 10c; oz., 20c; ¼ lb., 60c.

**New Stone** One of the heaviest and most solid fruited of the large tomatoes. Vines vigorous and productive. Fruit round, slightly flattened, very large, very rich scarlet. Price: ½ oz., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

**Dwarf Stone** Plants grow dwarf and stocky, like those of Dwarf Champion, and can be set out close together. The fruit is like Stone, solid and deep red, and of fine quality. Ripens a little earlier than Stone. It is worth planting in every home garden. Price: ½ oz., 15c; oz., 25c; ¼ lb., \$1.00.

**Golden Queen** A very handsome yellow tomato of large size. Price: ½ oz., 10c; oz., 20c.

**Yellow Pear and Yellow Plum** A small yellow tomato; is grown for preserves. Price: ½ oz. 15c; oz. 25c.

**Other Varieties** We can supply any of the standard sorts, whether listed here or not. For Tomato Plants see page 29.

## TURNIPS

Early Turnips should be planted very early. Late Turnips can be sown in July or August and will keep growing until the ground freezes. Use 2 pounds of seeds to an acre.

**Extra Early White Milan** The earliest turnip. Tops very small, very erect and compact. Price: oz., 15c; ½ lb., 60c; lb., \$1.00.

**Extra Early Purple Top Milan** Similar to the White Milan except the upper portion is a beautiful purple-red. Price: oz., 15c; ½ lb., 60c; lb., \$1.00.

**Purple Top, Strap-Leaved** The most popular sort. More largely grown than any other turnip; will form good size bulbs in seven or eight weeks. Price: oz., 10c; ½ lb., 40c; lb., 60c.

**Purple Top White Globe** Of a perfect shape with smooth, white skin. Flesh pure white, firm and crisp and of quick growth. Price: oz., 10c; ½ lb., 40c; lb., 60c.

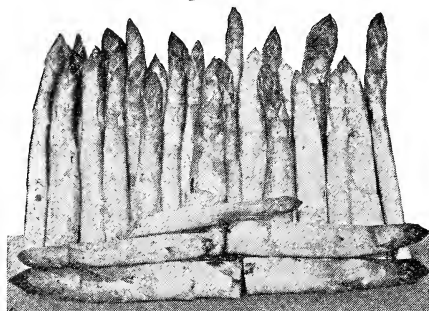
## Rutabaga or Swedes

**Improved American Purple Top** For the fine qualities and productiveness this is the best. The roots are finer and larger than the ordinary; the flesh is a rich yellow. Price oz., 10c; ½ lb., 40c; lb., 65c.



## MISCELLANEOUS VEGETABLES

### Asparagus



The Asparagus bed furnishes the first green delicacy for the table in the spring, is universally popular and requires but little care.

**Bonvallet's Giant.** Price: oz., 15c.  
**Columbia Mammoth White.** Price: oz., 10c.  
**Conover's Colossal.** Price: oz., 10c.  
**Asparagus Roots.** Two years old. See page 31.

### Cress or Pepper Grass

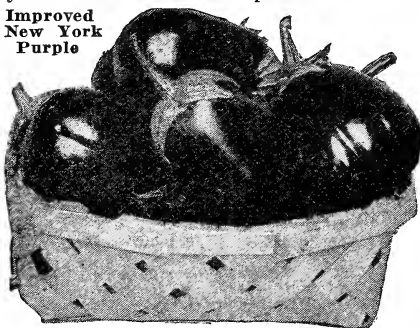
**Early Curled.** Well-known salad. Sow at intervals all season. Price: oz., 20c.

**True Water.** Sow seeds along the border of running water. Price: ½ oz., 20c.

### Egg Plant

A tender plant that should be started quite early in a hotbed and transplanted.

**Improved  
New York  
Purple**



**New York Improved Large Purple.** Fruits large, nearly round, dark purple, free of thorns. Price: ½ oz., 30c; oz., 50c.

**Black Beauty.** Fruit large, symmetrical in shape and of a rich dark purple color. Little earlier than our Improved Large Purple. Price: ½ oz., 30c; oz., 50c.

### Endive

(One ounce will sow about 60 square feet).

One of the best salads for fall and winter use. Sow seed in April for early use or in June or July for winter use. When leaves are eight inches long tie them together with a string near top to blanch. Price: oz., 15c.

### Broccoli

The culture is the same in all essentials as for cauliflower. Withstands greater extremes of temperature than cauliflower.

**Early White Vienna.** Extremely early, with distinctly small tops. Price: ½ oz., 15c.

**Early Purple Vienna.** Very early, with small top, the left stems being tinged with purple. Price: ½ oz., 15c.

### Mustard

**New White Chinese.** Leaves tender and delicious. Price: oz., 10c.

### Kohl Rabi

The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and somewhat resembles each in flavor. The edible part is a turnip shaped bush formed by the enlargement of the stem. Price: ½ oz., 15c.

### Brussels Sprouts

**Improved Half Dwarf.** The plants grow two to three feet high and produce from the sides of the stalk numerous little sprouts which resemble small cabbages one or two inches in diameter. Price: ½ oz., 25c.

### Kale or Borecole

**Dwarf German.** Very hardy, with dark green leaves; much improved by frost. Price: oz., 15c.

**Dwarf Curled Scotch.** Dwarf, beautifully curled, bright green. Price: oz., 15c.

### Leek

Belongs to the onion family. Set the roots deep and draw the earth to them when cultivating.

**London Flag.** The variety generally cultivated in this country. Price: oz., 20c.

### Parsley

(One ounce will sow 150 feet of drill).

Sow very early, thinly in drills one foot apart and half an inch deep. Soak seed in warm water a few hours before sowing.

**Champion Moss Curled.** A very select stock, finely crimped and curled. Price: oz., 10c; ¼ lb., 25c; lb., 75c.

**Hamburg.** Turnip-rooted variety; used for flavoring soups.

### Rhubarb

Easily raised from seed.

**Large Victoria.** The standard variety. Price: oz., 10c; ¼ lb., 30c; lb., 85c; postpaid.

For Rhubarb Roots see page 29.

### Salsify

**Mammoth Sandwich Island.** By far the largest and best for market. Roots of superior quality and double the size of the old variety. Price: oz., 25c.

### Sweet Herbs

#### Large Victoria Rhubarb

	½ oz.
Anise Seeds, aromatic .....	\$0.10
Caraway .....	.10
Catnip (Cat Mint) .....	.25
Coriander, for flavoring .....	.10
Dill (2 oz., 30c; ¼ lb., 50c) .....	.16
Lavender .....	.20
Marjoram, Sweet .....	.25
Saffron .....	.20
Sage, Broad Leaf .....	.15
Savory, Summer .....	.15
Thyme .....	.25

### Mushroom Spawn

**Mushroom Culture.** Mushrooms may be grown any place where the conditions of temperature and moisture are favorable. A shed, cellar, cave or vacant space in greenhouse. Twelve page pamphlet telling how to prepare bed, plant and grow the crop, 25c each, free with order for \$1.00 worth of spawn.

We carry the American Spawn Co.'s Pure Mushroom Spawn, conceded to be the best spawn sold. Always fresh.

American Spawn, in bricks, each .....\$0.30  
 One brick, by mail, postpaid ..... .40



**Sweet Peas.** Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny, open place several feet from any building and as far as possible from large trees. Sow as early in the spring as possible. Plant in rows and have the rows trenched for planting 4 to 6 inches deep. In dry weather water freely and keep the flowers picked closely. If allowed to go to seed the plants will stop blooming.

### Spencer Standards Varieties

The **Spencer Types** are exceptionally large size, with long stems, the wings waved or frilled and the effect remarkably graceful and attractive. All Spencers are decidedly shy seeders. The price higher than for the older (Grandiflora) type. We offer in the different shades, what we consider to be the best varieties.

**Apple Blossom Spencer** (Rose Spencer). Standard with primrose wings. Very large; true Spencer form. Per ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.25.

**Blanche Ferry (Pink Spencer)** Usually a little darker than Blanche Ferry and some of the flowers show striping. It is one of the most attractive varieties ever introduced. Per ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.25.

**Etta Dyke (White Spencer)** Standard and wings of pure white, beautifully waved and fluted. An especially attractive variety of very large size. Per ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.25.

**Mrs. Hugh Dickson (Salmon Pink Spencer)** A light on cream background, strong growers; throws four flowers to a stem. Per ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.25.

**King Edward VII (Red Spencer)** The best pure red Spencer; very large with especially immense wings. Per ½ oz., 10c; oz., 20c; ¼ lb., 60c.

**3578 The President** A brilliant orange-scarlet flower, always of largest size. The blooms, usually in fours, are carried on strong stiff stems. Per ½ oz., 15c; oz., 25c; ¼ lb., 75c.

**Spencer Mixed** All the Spencer varieties included in making up this magnificent mixture. A splendid range of colors is thus assured in remarkably large size and wonderful attractive form. Michael's De Luxe Mixture. Per ½ oz. 10c; oz., 15c; ¼ lb., 50c; ½ lb., 90c; lb., \$1.50.



Spencer Type

### GRANDIFLORA TYPE

**Eckford Mixture** This is an old and well known mixture of Grandiflora type. Contains some of the entire list and cannot fail to give the very highest satisfaction of the Grandiflora Sweet Peas that have for years been the pride of the flower garden. Price: per ½ half oz., 5c; oz., 10c; ¼ lb., 25c; lb. 60c.

### Nasturtiums

#### Giant Flowering

**Nasturtium.** Few flowers equal the Nasturtium in richness and variety of colors, freedom of bloom and ease of culture. They are suitable for bedding and handsome climbers, grow quickly, thrive in the poorest soil and furnish the greatest abundance of long lasting, sweet scented cut flowers.

**King Theodore** (Tall Growing). Rich, deep, crimson flower; most striking and beautiful of all tall growing Nasturtiums. Foliage dark green and vigorous. ½ oz., 10c; 1 oz., 15c; ¼ lb., 25c.

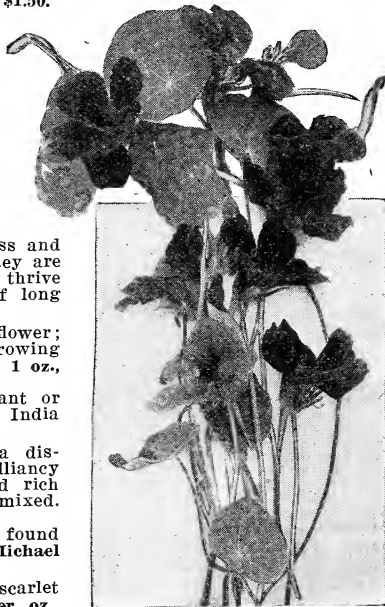
**Michael's Zulu** Scarlet, dark leaved; darker than Brilliant or Fulgens and the nearest to Empress of India in the Talls. Per ½ oz., 10c; oz., 15c; 2 oz., 25c.

**Nasturtiums Lobbianum** (Lobb's Nasturtium). This is a distinct variety of remarkable brilliancy of flowers surpassing the old fashioned kind for size and rich colors with overlapping petals on each flower. All colors mixed. ½ oz., 10c; 1 oz. 15c; 2 oz. 25c; ¼ lb. 40c.

**Tall Mixed** (California Giants). In this mixture will be found the choicest of all colors and varieties. Michael De Luxe Mixture. Per oz., 10c; ¼ lb., 25c; lb., 75c.

**King of Tom Thumb** A dwarf variety with intense deep scarlet flowers, dark green foliage. 15c per oz., ¼ lb. 35c.

**Dwarf** (Mixed). A special mixture of Dwarf Nasturtium of a great many colors in even proportions. Michael De Luxe Mixture. Per oz. 10c; ¼ lb., 25c; lb., 75c.



Dwarf Nasturtium

**Dwarf King Theodore** Velvety red flowers with dark green foliage. Price 10c per oz., ¼ lb., 35c.

# Asters and Zinnias

## Asters

In their many varieties and colors, are the grandest and most beautiful flowers that bloom in the home garden.

### Michael's New Creation Aster (Heart of France)

The richest red Aster ever developed. Color livid, ox blood red with a sheenish tinge in the sunshine like burning coals. Second early bloomer. Plants grow about 2 feet with free branching habit. Flowers are double borne on stems about a foot long. Bulk packet 10c; 1-16 oz., 15c.

**Extra Early Express or Early Wonder** These are the earliest blooming Asters, commencing to bloom with us in July. Flowers large and full, of the Comet type. Finest mixed. Bulk pkt. 5c; 1-16 oz., 15c.

**Michael's Dwarf Royal** These are a dwarf branching variety of Asters about 15 to 18 inches high, coming into bloom early in the season following the Early Express. Double flowered and very attractive. Finest mixed. Bulk pkt. 5c; 1-16 oz., 15c.

**Michael's Giant Branching** This is a new Aster which we have developed after several seasons of Hybridizing and selection. It is a branched variety of true non-lateral stems. Has an immense flower of great beauty and substance of the Crego or Ostrich Feather type throwing no single flower. Michael's De Luxe Mixture, bulk packet 10c; 1-16 oz., 15c; 1-8 oz., 25c.

### Michael's Giant Branching, White

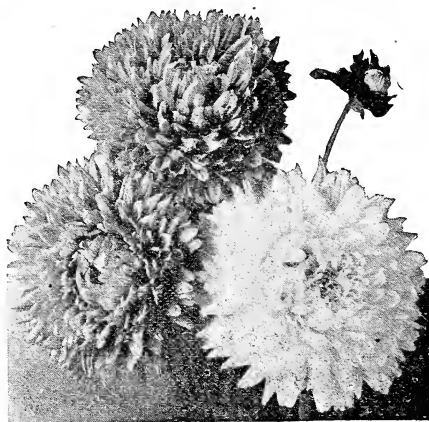
Bulk pkt. 10c; 1-16 oz., 15c.

### Michael's Giant Branching, Purple

Bulk pkt. 10c; 1-16 oz., 15c.

### Michael's Giant Branching, Shell Pink

(Mary Semple), daybreak pink. Bulk pkt. 10c; 1-16 oz., 15c.



### American Beauty Aster

**American Beauty** This new type of Aster of American origin is one of the most attractive of all large flowering branching sorts, vigorous grower and profuse bloomer with whorled center as the flower unfolds. Comes in three shades: **Michael De Luxe Mixture**. Bulk pkt. 5c; 1-16 oz., 10c.

**Carmine Rose Beauty** Regular American Beauty color. Bulk pkt., 10c; 1-16 oz., 15c.

**Purple Beauty** Richest of all purple Asters. Bulk pkt. 10c; 1-16 oz., 20c.

**White Beauty** Snow white with intense effect. Bulk pkt. 15c; 1-16 oz., 25c.

## Zinnia

Showy plants with large, double flowers. Might be taken for dwarf dahlias. Few flowers are more easily grown or bloom more abundantly throughout the season.

### New Dahlia Flowered Zinnias

The Dahlia Flowered Zinnias are similar in shape to the double Decorative Dahlia which is nicely shown in our accompanying picture, immense flowers with a range of colors not only including the usual shades, but many unusual tones, such as salmon, old rose, cerise, strawberry-red, etc. **Michael De Luxe**. Bulk pkt., 10c; 1-16 oz., 20c; 1-8 oz., 35c.

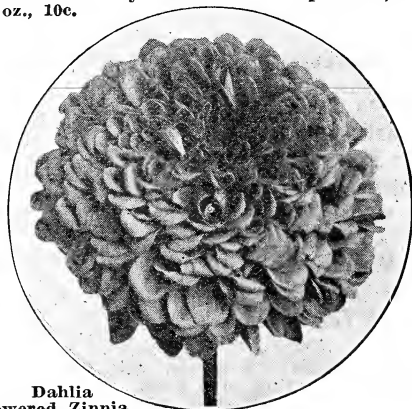
**Exquisite** This is by far one of the most pleasing colored Zinnias of any of the named varieties of the Dahlia flowering and is a true Dahlia type in regard to size and form. The color is light rose with a deep Tyrian Rose center. Bulk packet, 25c.

**Oriole** The most beautiful Dahlia Zinnia of its class. An immense orange and gold bicolor, changing slightly as it ages, worthy of the beautiful bird for which it is named. Bulk pkt. 25c.

**Crimson Mpnarch** By far the largest and best of the red shades of Dahlia Zinnia. Flowers often eight inches in diameter. Bulk pkt. 20c.

**Double Giant** A special strain of this grand old flowering annual, which produces flowers of colossal size, specimens measuring from 5 to 6 inches across. **Michael's De Luxe Mixture**. Bulk packet 10c; 1-16 oz., 25c; 1-8 oz., 25c.

**Jacqueminot Zinnia** This splendid red flowering Zinnia is just covered with velvety, double red flowers throughout the summer until frost, with the effect of red American Beauty roses. Bulk pkt. 5c; 1-16 oz., 10c.



Dahlia  
Flowered Zinnia



# Pansies and Petunias

## Petunias

### LARGE-FLOWERING SINGLE SORTS

For freedom of bloom, variety of color and effectiveness these have no equals. If only a little care is bestowed upon them. Petunias will produce their handsome, sweet-scented flowers in their delicate and gorgeous colors throughout the whole summer. Michael's De Luxe Mixture. Large flowering. Bulk packet 5c; 1-16 oz. 15c.

### BALCONY PETUNIAS

**Balcony Petunias** A splendid free flowering variety of single Petunia; about 12 inches high; flowers average 3 inches across. Especially valuable for windows, porch boxes, vases, among rock work, terraces and equally as effective in beds and borders. Michael's De Luxe Mixture. Bulk packet 10c; 1-16 oz., 25c.

**BALCONY ROSE.** Rich velvety blue—great substance.

**BALCONY ROSE.** Brilliant rose-pink—very effective.

**BALCONY WHITE.** Pure, dazzling snow-white.

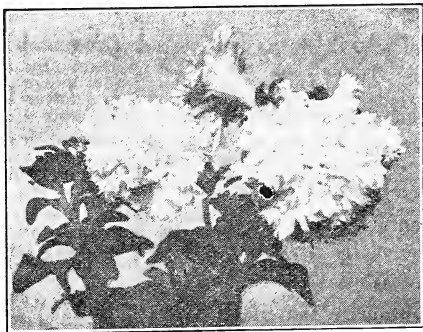
**BALCONY CRIMSON.** Rich velvety crimson. Bulk packet each 10c; 1-16 oz., 25c.

### SINGLE BEDDING PETUNIAS

**General Dodd (Hybrida)** One of the most beautiful flowered Petunias among the dark red and crimson colored varieties. A flower of great substance. Blooming continuously all season. Bulk packet 10c; 1-16 oz., 15c.

**Howard's Star** A beautiful, free flowering strain, color crimson-maroon, with a clearly defined five-pointed star of bluish-white. For bedding, baskets, vases, etc., this is exceptionally fine. Bulk packet 10c; 1-16 oz., 25c.

**Rosy Morn** Soft carmine-pink with white throat; makes a very dainty and at the same time effective border. 1-8 oz., 75c. at the same time effective border. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c.



Michael's Double Fringed

### LARGE-FLOWERING DOUBLE PETUNIAS

**Michael's Superb Double Fringed** (Grandiflora plena Finbreata. Saved from our own unrivaled collection; will produce a large percentage of double flowers of the largest fringed varieties in bright colors. Michael De Luxe Mixture. Per 100 seeds, 25c.

**Dwarf Petunias (Nana Erecta Compacta)** This beautiful type is particularly suited for beds and border. Plants form round bush like clumps, literally covered with thousands of flowers, glistening in the sunlight and last from June until frost. Michael's De Luxe Mixture. Bulk packet 5c; 1-16 oz. 15c.

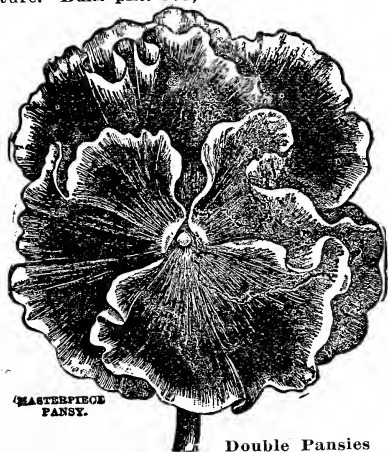


Giant Flowering Pansies

## Pansies

**Pansies.** Pansies are now produced in almost infinite variety of form, color and markings. We have the plants as well as the seed. See page 31 for plants. Giant Flowering. Michael's De-Luxe Mixture. Bulk packet 15c; 1-16 oz., 40c; 1-8 oz., 65c.

**CASSIER, BOUQUET and TRIMARDEAU** in combination. Cassier contains the finest giant blotched variety. Bouquet, large flowers of great diversity in colors, especially rich in red and wine shades. Trimardeau, giant flowers of all colors, white, purple, yellow, etc. Grand Mixture. Bulk pkt. 10c; 1-16 oz. 25c.



MASTERPIECE PANSY.

Double Pansies

**Masterpiece** (New Giant Curled or Spencer Pansies). The petals are crimped, curled and fluted so that the flowers appear more or less double. Bulk packet 10c; 1-16 oz., 25c.

We offer only the best pansy seed from the greatest specialist growers in the world.

# General List Flower Seeds (In Bulk)



Are better, cost less, more certain to grow than paper seeds.

One of the most cherished recollections that we have of our mother's or grandmother's home is that of the beautiful array of brilliantly colored flowers—marigolds, daisies, pansies, balsams, asters, pinks, poppies, nasturtiums and other flowers in great array.

**Alyssum Procumbens** (Carpet of Snow). This is a select strain of this sweet scented annual. It grows 2 inches high with the appearance of a flat pancake. The mass of blooms completely hide the foliage, giving the appearance of a covering of snow. Bulk pkt. 5c; 1-16 oz., 10c.

## Carnation

**Carnation.** "Florists Pink." Easily grown from seed; free blooming; flowers bright with clove like fragrance. Half hardy perennial.

**Margaret** These are deservedly the most popular Carnations with the amateur. This strain is extra fine quality, producing an abundance of large, double, beautifully-fringed, highly scented flowers. All colors mixed. Bulk pkt., 5c; 1-16 oz., 10c.

**Celosia** (Plumosis). Distinct variety bearing a profusion of beautiful ball-shaped woolly flower heads of intense scarlet. Sometimes called the **Wool Flower**. Surpassing the Red Geranium in blooming effect and blooms all summer until frost comes. Price: Pkt., 10c; 1-16 oz., 10c.

## Celosia Cristata or Crested (Coxcomb)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds. Bulk pkt., 5c; 1-16 oz., 10c.

**Balsam** Known as Lady Slipper and Touch-Me-Not. The colors range from white to dark purple. Hardy Annual, one to two feet high. Mixed Double Sorts. Bulk pkt. 5c.

**Centuria-Cyanus** (Bachelor Buttons, Corn Flower) in its improved forms is one of the most attractive of garden flowers. One to two feet high. Double mixed. Bulk pkt. 5c; 1-16 oz. 10c.

**Centaurea Imperialis** (Sweet Sultan) This beautiful sweet scented flower of artistic shape is borne on long strong stems and is undoubtedly the finest of all this class for cut flower purposes and will last several days in good condition. Bulk pkt. 10c; 1-16 oz., 15c.

**Coreopsis** Very showy, free flowering plants, native of this country, fine for borders and beds. Yellow Flowering. Bulk pkt. 5c; 1-16 oz., 10c.

**Cosmos—Double Flowering** (Double crested or anemone flowered) A new creation in this beautiful late summer and autumn blooming plant, furnishing an abundance of blooms for decoration when other flowers are scarce. Bulk packet, 10c; 1-16 oz., 25c.

**Cosmos** A very effective autumn flower, bush-like plants 3 to 5 feet high, and covered with large, single, dahlia-like flowers. Early Flowering. Mixed Bulk pkt. 5c; 1-16 oz., 10c.

**Double Flowering, White** Standard pkt., 15c; 1-16 oz., 25c.

**Double Flowering, Crimson** Standard pkt., 15c; 1-16 oz. 25c.

**Calliopsis** Showy border plant, flowers bright yellow or rich brown, either self-colored or with these colors and red contrasted. All sorts mixed. Bulk pkt., 5c; 1-16 oz. 10c.

**Candytuft** Showy, branching plants six to twelve inches high; will bloom from July to September, or if planted in the fall from May to July. All sorts mixed. Bulk pkt. 5c; 1-16 oz., 10c.

**Castor Bean** (Ricinus). Tall, majestic plants for lawns, with leaves of green metallic blue; of very quick growth in rich soil. Zanzibariensis, very large green; and the Gibsonia, beautiful bronze foliage. Bulk pkt. 5c; ½ oz., 15c.

**Calendula** (Officinalis). This variety has large flowers resembling in size and form the finest Aster. It blooms profusely with a succession of bright deep orange flowers from July until frost. Bulk pkt., 5c; 1-16 oz. 10c.

**Cypress Vine** A most beautiful climber with delicate, dark green, feathery foliage, scarlet blossoms. Tender, annual. Bulk pkt. 5c; 1-16 oz., 10c.

**Forget-Me-Not** (Myosotis). A favorite old-fashioned flower, bearing in profusion clusters of blue blossoms. It thrives well in the shade or open border. Hardy perennial. Bulk pkt. 10c; 1-16 oz. 15c.

**Four-O'Clock** (Marvel of Peru). The flowers are funnel-shaped and open about four o'clock in the afternoon and remain open all night and generally perish before noon next day; will grow in any soil. Hardy annual, 2 feet high. Bulk pkt. 5c; 1-16 oz. 10c.

**Gaillardia** (Blanket Flower) Borne on strong stems; blooming quite early; bright gay colored flowers which continue to bloom until frost. Lorenziana Double Mixed. Bulk pkt. 5c; 1-16 oz., 10c.

**Helichrysum** (Straw Flower). A great demand for this everlasting flower has induced us to list it. It is an ornament to the garden and is everywhere prized for winter decorations in vases as permanent bouquets. The flowers intended for drying should be gathered when partially in flower and suspended with heads down in a cool place. Bulk pkt. 10c; 1-16 oz., 15c; 1-8 oz. 25c.

**Heliotrope** Highly valued for the fragrance of their flowers and duration of bloom.

**Phlox Drummondii**

**Phlox** (*Drummondii*). The Phlox is the earliest and hardiest of all the annuals. It occupies a most prominent place in the flower garden and produces a variety of flowers of beautiful colors, which is varied with stripes, veins and points of contrasting shades. Michael's DeLux Mixture. Bulk pkt. 10c; 1-16 oz., 15c; 1-8 oz., 25c.

**Pinks** (*Heddeewigi*). For beautiful and lasting cut flowers, ease of culture and freedom of bloom, the hardy garden pinks have no superior among annuals; 18 inches high. Michael's Chinese DeLux Mixture. Bulk pkt., double, 5c; 1-16 oz., 10c. Single, 5c; 1-16 oz., 10c.

**Poppies** Great advance has been made in recent years in the development of the Poppy. No other flower produces a more brilliant display of colors during the blooming period.

**SHIRLEY POPPIES.** Michael's DeLux Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

**TULIP POPPIES.** (Shirley type). Intense scarlet. Bulk pkt. 10c; 1-16 oz. 15c.

**AMERICAN LEGION.** (Shirley type) Dazzling intense scarlet. Bulk pkt. 10c; 1-16 oz. 15c.

**DOUBLE PEONY FLOWERED.** Mixed Bulk pkt. 5c; 1-16 oz. 10c.

**DOUBLE CARNATION FLOWERED.** Mixed Bulk pkt. 5c; 1-16 oz. 10c.

**Portulaca or Rose Moss** There are but few flowers in cultivation that make such a dazzling display of color in the bright sunshine as a bed of Portulacas. The flowers close in shadow but are open in sunshine. Single Mixed. Bulk pkt. 5c; 1-16 oz. 15c; 1-8 oz. 25c. Double Mixed. Bulk pkt. 15c; 1-16 oz., 25c; 1-8 oz., 40c.

**Salvia** Among the most brilliant colored flowers and extremely useful for bedding. Blooms are of fiery red crimson color, continuing to flower for a long time. Tender perennial; blooms until frost; height 2 to 3 feet. See page 19 for plants. *Salvia Splendens*. Bulk pkt. 10c; 1-16 oz., 25c; 1-8 oz., 40c.

**Salpiglossis.** Very showy bedding or border plants, with richly colored, funnel-shaped flowers, which are purple, scarlet, crimson, yellow, buff, blue and almost black; height, 1 foot. Fine Mixed Sorts. Bulk pkt. 5c; 1-16 oz., 10c.

**Stocks** To such perfection has selection brought this flower that good seed will have a large proportion of exceedingly double flowers. Average height, 1½ feet. Double Mixed. Bulk pkt. 10c; 1-16 oz., 25c.

**Kochia or Summer Cypress** (*Kochia Tricop-hylla*). A highly ornamental annual, having a cypress-like appearance. Its bright autumn coloring has given it two other names: "Mexican Fire Plant" and "Burning Bush." Bulk pkt. 5c; 1-16 oz. 10c.

**Larkspur (Delphinium)** Quick growing, free blooming annual with erect spikes of beautiful flowers in great profusion. Strictly an annual distinctly different from Delphinium perennial. Bulk pkt. 5c; 1-16 oz. 15c.

**Lace Flower (Didiscus Coeruleus)** Beautiful Australian annual; well-known flower of our grand parents with a blossom like the Queen's lace handkerchief. Bulk pkt. 10c; 1-16 oz., 15c.

**Marigold** Old-fashioned flower blooming in profusion; usually 2 feet high; blooms till frost comes. Bulk pkt. 5c; 1-16 oz. 10c.

**Mignonette** A well-known hardy annual, producing exceedingly fragrant flowers. Seed sown in autumn will bloom early in the spring; thrives best in cool temperature; 1 foot high. New Machet. Mixed sorts. Bulk pkt. 5c; 1-16 oz., 10c.

**Mourning Bride (Scabiosa)** A half hardy plant blooming in cool places. Flowers borne on tall, slender stiff stems with fine, round, full centered form of tubular petals with feathery effect. Michael's De Luxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

**Moonflower (Noctiflora)** A wonderful climber, growing rapidly to the height of 20 ft. in a single season. Foliage large, dense and luxuriant. Splendid shade for porches. Flowers open at sundown and like all night bloomers has a delicious fragrance. Bulk pkt. 5c; 1-16 oz. 10c; ¼ oz., 25c.

**Morning Glory** Handsome, showy climber, suitable for covering windows, trellis, old stumps, etc., if support be given the vines. Hardy annual. 10 feet high. Giant Japanese Mixed. Bulk pkt. 5c; 1-16 oz., 10c.

**Sweet Williams** For display in the garden, the Sweet William is unsurpassed. The seed can be planted in the spring in the open ground and will blossom in the fall. Hardy perennial; 1½ feet high. Fine mixed single. Michael's Double DeLux Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

**Snapdragon** (*Antirrhinum Medium*). For gorgeous coloring effect, few flowers surpass the Snapdragon. Borne on long stems and very fragrant. Michael's DeLux Mixture. Bulk pkt. 5c; 1-16 oz., 10c.

**DEFIANCE.** Fiery Scarlet. Bulk pkt. 5c; 1-16 oz., 15c.

**GRENADIER.** Orange Scarlet. Bulk pkt., 10c; 1-16 oz., 15c.

**PRIMA DONNA.** Terracotta. Bulk pkt. 10c; 1-16 oz., 15c.

**Verbena** Sown in May, they will bloom in August, but if started in the house in pots in winter, they will bloom sooner. Seeds should be soaked in luke warm water before planting and care should be taken that the soil be very rich. Half hardy perennial trailer; 6 to 10 inches high. Michael's DeLux Mammoth Mixture Hybrid Giganta. Bulk pkt. 10c; 1-16 oz. 25c; 1-8 oz., 40c.

**Lucifer** (New) Brilliant scarlet, no eye, an improved Defiance. Pkt., 10c; 1-16 oz., 25c; 1-8 oz., 40c.

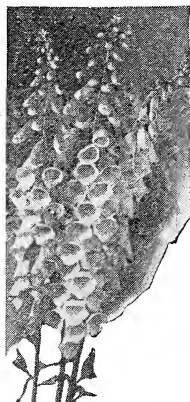
**Firefly** Brilliant Scarlet with a white eye. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c.



Delphinium

## Perennial Flower Seed of Perennial Plants

The charm of Perennial Flower Plants is that these occupants become our truest friend,—once established the flower remains as long as they are wanted, and year after year we greet them at the same time and in the same place,—each flower has its season when it buds, blooms and blossoms and finally exhausts its glory and retires for a long winter's rest. There is no phase of ornamental gardening that deserves greater study. The economical way to obtain perennials is to grow them yourself from seed; they can be planted anytime from April to July,—the earlier sown the stronger the plants or clumps will be. Few of the perennials bloom before the 2nd year but after that we are repaid each year for the care given them by the increasing wealth of bloom.



Digitalis (Fox Glove)

**Campanula** (Canterbury Bells). A large flowering, beautiful and most important family for the flower garden ranging from 18 to 24 inches in height. Michael's DeLuxe Mixture. Bulk pkt. 10c; 1-16 oz., 25c.

**Carnation** (Hardy perennial variety). Some varieties of Carnation are quite hardy and with ordinary protection withstand our most severe winters. Large double flowery, Dwarf mixed. Bulk pkt. 15c; 1-16 oz., 25c. Hardy Grenadin Red. Bulk pkt. 15c; 1-16 oz. 35c.

**Aquilegia** (Columbine). The Columbine is one of the most beautiful hardy perennials producing graceful spurred flowers on 2 ft. stems. Michael's select, long spurred DeLuxe Mixture. Bulk pkt. 15c; 1-16 oz. 50c.

**Delphinium** (Perennial Larkspur). Few plants are so handsome in the garden as perennial Larkspur. The most important varieties are the tall hybrids with a wonderful range of color. Michael's DeLuxe Mixture of gold medal hybrid. Bulk pkt. 25c; 1-16 oz., 50c.

**Dianthus Barbatus** (Sweet William). An improvement on the old fashioned kind, color and size of flower. Michael's DeLuxe. Bulk pkt. 15c; 1-16 oz., 25c.

**Digitalis** (Fox Glove). Stately, old garden favorite. For garden shrubby borders and in suitable places, producing spires of blossoms of 3 to 5 ft. high. Michael's DeLuxe Mixture. Bulk pkt. 15c; 1-16 oz., 25c.

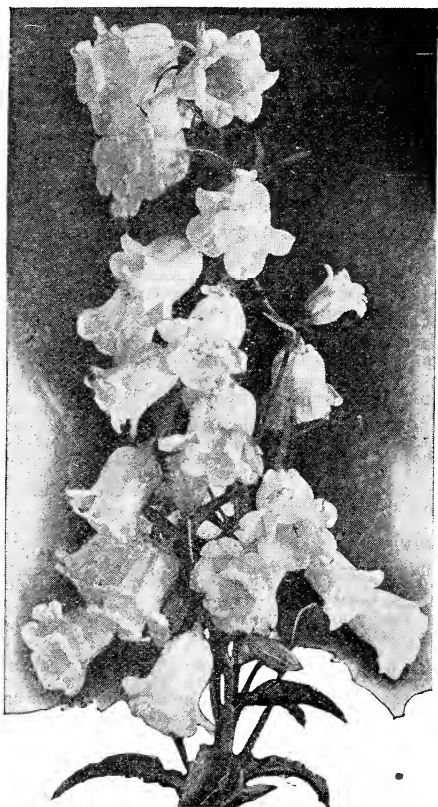
**Phlox** (Decussata). Hardy variety, with seed that is slow to germinate; should be well soaked before planting. Bulk pkt. 15c; 1-16 oz. 25c.

**Platycodon** (Chinese Bell Flower). Very handsome border plant of the Campanula family, the flowers of which when in bud have the appearance of an inflated balloon blooming from June to September; large handsome deep blue flowers. Bulk pkt. 10c; 1-16 oz. 15c.

**Gaillardia** (Blanket Flower). An easily grown plant in ordinary garden soil; long stems and bright colors make these one of the most valuable perennials. Michael's DeLuxe new hybrids. Bulk pkt. 15c; 1-16 oz. 25c.

**Hollyhock** One of the old fashioned garden flowers that makes a charming hedge or background. Double Mixed. Bulk pkt. 5c; 1-16 oz., 10c. Allegheny. Mammoth flowering. Single Mixed. Bulk pkt. 10c; 1-16 oz., 25c.

**Papaver** (Perennial Oriental Poppy). For gorgeous color the Oriental Poppy has few rivals among all hardy plants. Effective in shrubbery and Herbaceous borders. Michael's DeLuxe Oriental Hybrid Mixture. Bulk pkt. 15c; 1-16 oz. 25c.

Campanula  
Canterbury Bells

## ALFALFA AND CLOVER SEED

**Caution.** It is fully as incumbent upon the part of the buyer to see that he gets what he bought as it is upon the part of the seller to exercise every caution and care to furnish what he sold. Mistakes occur in the best regulated business. The buyer should therefore check his purchases over, examine it carefully just before planting, and know positively that all is correct.

### Alfalfa

**Native Alfalfa**— This grand forage plant is now a success everywhere. The plant grows, thrives and does well on any of the rolling prairies or well-drained bottom lands. The young plants are tender; the seed should not be sown until the frost has left and the ground is warm. One bushel of 60 lbs. will sow three to four acres. Can be planted with a light nurse crop of barley, speltz or wheat, but best results when planted alone.

The stock we handle is northern grown native seed, super-fine quality, which we quote subject Market change. Northern seed price per bu. \$14.00.

#### DAKOTA GROWN ALFALFA

Dakota grown Number 12 seed certified, super-fine quality, per bu. \$15.00. Price \$24.00 per 100 lbs. All prices subject to Market change.

**Turkestan Alfalfa** Our seed is imported direct from the cold northern country of Asiatic Turkestan, on the Siberian plains of Russia. Recommended by the U. S. Government Department of Agriculture for years as the hardest strain of this great forage plant. Price certified seed, \$12.50 per bushel. to market change.

**Grimm Alfalfa** A very hardy, acclimated strain developed in Minnesota. The roots are more or less of lateral tendency, and do not consist entirely of one straight tap root. For this reason it is desirable for land having a hard sub-soil, which is difficult for the roots to penetrate. Certified Seed, Dakota grown, \$30 per 100 lbs.

**Cossack Alfalfa** This is a variety of somewhat recent introduction, introduced by the Dakota Agriculture College and discovered by Prof. Hanson some years ago growing in the most Northern regions of Siberia, and having endured that severe winter climate doubtless for ages, it is an arctic variety which he highly recommends as the most hardy variety of Alfalfa in the world, and he recommends it also as a valuable forage producing variety. It has been grown now for the last eight or ten years in different parts of South Dakota and has proven itself to be all that is claimed for it. We offer only Dakota grown seed, certified. Price, 50c per lb.; 10 lbs. \$4.75; \$15.00 per 100 lbs.

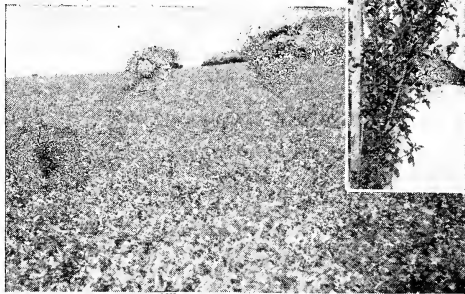
### Red and Alsike

**Medium Red Clover** This by far the most important of all the varieties for practical purposes. Sow in spring or fall, and if no other grasses are used, at the rate of 15 pounds per acre. More is used on old soil than on new. Per bu., \$15.00.

**Mammoth Red or Sapling Clover** (*Trifolium pratense*). Similar to Red Clover, but coarser, taller and more hardy. Sow from 12 to 15 pounds per acre. Price same as medium.

**Alsike or Swedish Clover** The most hardy of all clover. On rich, moist soil it yields an enormous quantity of hay or pasture, but its greatest value is for sowing with other clover and grasses, as it forms a thick bottom and greatly increases the yield. Sow in spring or fall at the rate of 10 pounds per acre when used alone. Fancy seed, \$10.00 per bushel.

Remember, all prices we are quoting on these seeds are subject to market changes without notice. On all quotations cotton grain bags extra, 50c each.



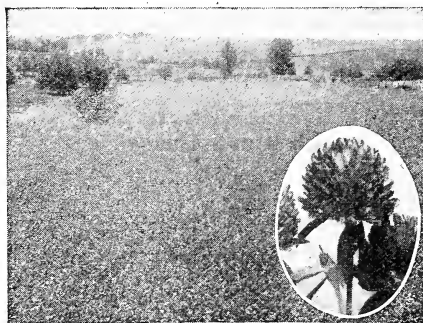
Field of Alfalfa

**White Clover** A small perennial variety valuable for pasture and for lawns. It accommodates itself to a variety of soils and can be grown anywhere. Can be used to great advantage in pasture mixtures. Per lb., 60c; price per 100 on application.

### Sweet Clover

There are two preferred varieties, White and Yellow Flowering Biennial Varieties. The White Flowering Biennial is preferred to all others because it grows taller, makes a more powerful root growth and produces more forage. It can be planted very early in the spring-time with or without a nurse crop. Its first year's growth is two to three feet. The first year's crop for hay should be cut in the latter part of the summer or early fall. The second year's crop for first cutting should be cut high for hay, not later than the first appearance of the blossom. White Flowering, fancy seed, per bu. \$9.00. Yellow Flowering, fancy seed, per bushel \$8.50. Bags 50c each.

**Giant White Annual** This is a new type brought to attention by Prof. Hughes of the Iowa State College. It is just like the big biennial white except that it is annual and makes its entire growth and seeds the first season. Also called Hubam. We quote subject to market change, 30c per lb. Special prices in quantity.



Field of Medium Red Clover

See Page 46 for Nitragin cultures, inoculation for Alfalfa, Sweet Clover and other legumes.

## Timothy

**Timothy.** This well-known grass is the best of all grasses for hay. Succeeds very well on all kinds of soil, but is well adapted to moderately moist land. Should be cut just when the blossom begins to fall. Can be sown in spring or fall. **One bushel sows 3 acres.** Is used in mixture with clover and other grasses to good advantage. We quote subject to market change, superfine quality, per bushel, \$3.50. Bags extra 50c each.

## English Blue Grass



English Blue Grass

It is a success everywhere, on all kinds of land and never freezes out. It comes early in the spring, is green all summer and lasts until late autumn. It's an early quick crop and a nutritious pasture grass. It's a perennial, 2 to 3 feet high, and heads out in June.....About 15 lbs. per acre. Best seed, per lb., 25c; per 100 lbs., \$15.00. Burlap bags free.

## Bromus Inermis

(Awnless Brome Grass)

A hardy perennial standing extremes of heat, cold and drouth better than any other of our cultivated grasses. It is especially adapted to the Northwest. It grows with great rapidity and produces luxuriant pastures. The analysis made shows that it is exceedingly rich in flesh-forming ingredients. Sow about 15 to 20 pounds to the acre. Per lb., 25c. Choice Dakota grown seed, per bu. of 14 lbs., \$2.25. Burlap bags free.

## Orchard Grass

**Orchard Grass.** This grass does well everywhere, and for hay can be cut much earlier than timothy. Succeeds the best of grasses in timbered lands or orchards. Sow one to two bushels per acre. Per lb., 30c; bu., of 14 lbs., \$2.50.

## Kentucky Blue Grass



Kentucky Blue Grass

The universal pasture grass of America and the finest lawn grass in the world is our own **Kentucky Blue Grass.**

It starts like magic with the first smile of spring and is a velvet green until winter comes. It can be grown on the wild prairie and will catch, but the best results are to be had by getting the seed well mixed with the soil. The seed we offer is fresh, clean and pure. Sold at rate of 14 lbs. per bushel, which we quote subject to market changes, 21 lb., quality, \$3.75 per bu... For lawn culture, double weight, our Purity Brand, 30 lb. quality; 100 per cent pure, highest germination, 50c per lb. All prices subject to market change.

## Red Top



Red Top

**Red Top.** This grass is especially suited to low, wet, spouty lands; is in fact, the only grass which is a real success on such soil. Stands our northern winters, can be sown on wet land without cultivation, and will catch. Into the wet soil it spreads its network of roots, tames the land, and in a few years makes a deep, substantial sod. The seed often comes in the chaff, but the only thing to plant is the solid seed, clean from chaff. Sow 10 pounds per

acre. We quote best solid seed, very best, per lb., 35c; per 100 lbs., \$17.50. Our cotton bags extra, 50c each.

## Rye Grass

This grass, though but an annual in this climate, in a very short time after the seed is sown it makes as fine pasture as other grasses of long standing. The leaves are very dark green with a rich tint to the blade. It makes a pasture quick as oats or rye would, and being a grass is of far greater value. It makes a splendid winter pasture if left to cure on the ground. Per lb., 25c; per 10 lbs. \$2.00; per 100 lbs. \$12.50. Burlap bags free.



## FORAGE AND FIELD SEEDS DEPARTMENT

### Iowar Oats

The best of all early varieties. Prof. Burnett's latest production, he claims it to be three days later, three inches taller, and yields 3 to 10 bushels more per acre than the well known Iowa 103, it is a white oat with nice plump kernels and very heavy, has good stiff straw, and will not lodge easily, the seed we have to offer was grown from certified seed, is clean and pure, and if you buy your seed from us you are getting pure seed and the genuine stock. I can recommend it as the best early variety, and a money maker to farmers on rich soils in the corn belt states. Per bu. \$1.00; per 10 bu. \$8.00; 25 bu. \$17.50 f. o. b. Iowa Growing Station. All prices subject to change and stock on hand. Burlap bags extra, 15c each.

**Hulless Oats** The Hulless Oats is something new in that well known cereal. Hulls out in process of threshing just the same as wheat hulls from the chaff. Valuable for hog food and yields very good crop, 36 to 40 bushels to the acre. Price: 1b. 15c; 10 lbs. \$1.00; per 100 lbs. \$8.75.

**Iowa No. 103** Seed Oats. This is a thoroughbred from a sport of the Kherson oats, discovered in a plant of that variety on the Iowa Agricultural College ground at Ames. Attention to this sport developed what is known as the Pedigree Iowa No. 103 Oats. It is an immense cropper, great yielder, outyielding the parent stock by almost double. Has a good, strong stock and stands well under adverse conditions. Every farmer interested in these crops should get at least enough to get his seed stock started from this valuable sort. Price per bu., \$1.00. Special price on quantity. Burlap bags 15c each.



Seed Oats

**Fancy Oats** Under this heading we offer standard, white oats which we are able to get from our customers who make a specialty of oats. These oats are carefully cleaned and are able to offer at a very reasonable price and make special prices in quantity. Burlap bags 15c each. Write for samples and prices.

### Tennessee Millet

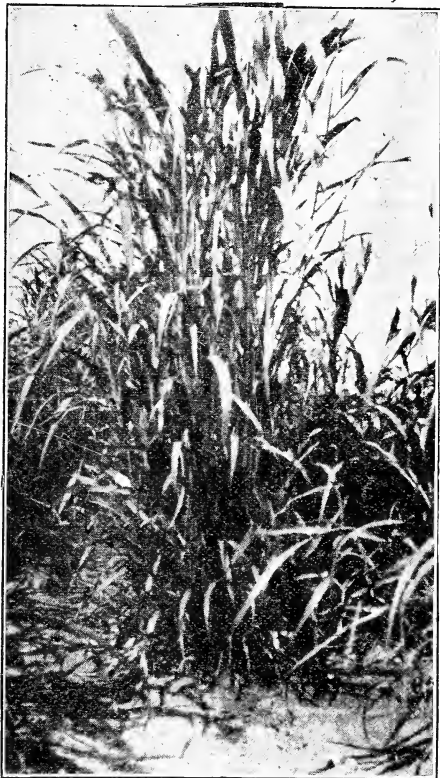
Pure Tennessee Millet of all the well-known kinds, is by far the most valuable. This well known sort reaches the acme of perfection in the more southern states, and it is a fact that when the southern grown seed is planted in the north, it produces a taller stalk, and heavier growth of foliage than can possibly be raised from our own northern grown seed. Plant three-fourths bushel per acre. Price: \$1.50 per bu. Bags extra, 50c. each, holding 2½ bu.

### Sugar Cane for Fodder

The greatest of all forage and fodder plants. It will yield two crops of fodder and a good fall pasture in one season. Roots deep into the subsoil and stands the drouths that often destroy other crops. As a rough provender it is unsurpassed. Sow 1 to 2 bushels per acre. Subject to market change, \$1.25 per bu., bags extra, 50c. Special prices in quantity on application.

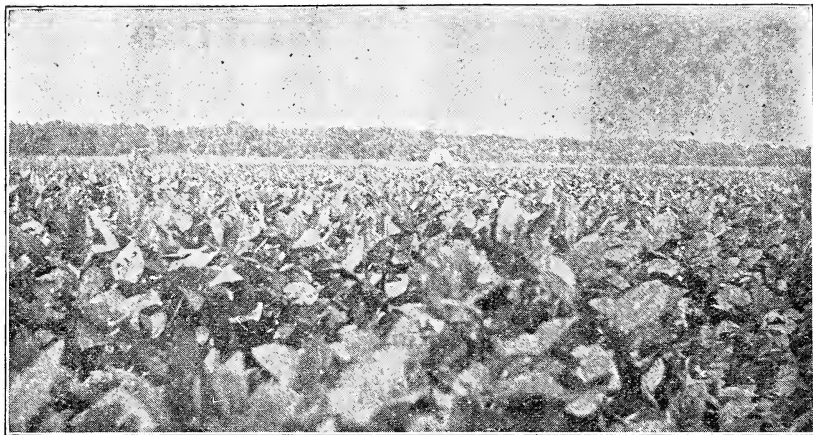
### Sudan Grass

What U. S. Department of Agriculture thinks about Sudan Grass. That it is a tall annual grass, growing when sown broadcast, to height of 4 to 6 feet. It stools abundantly, as many as 100 stalks coming from a single root. Yields two cuttings in one season. It is a marked success, especially in semi-arid sections of the West. Drilling Northern grown Certified Seed or broadcasting, 15 to 20 pounds per acre. Shortage of seed this year reported from Kansas and other southern seed crop districts. 100 lbs. for \$10.00. Bags extra, 50c each, holding 2½ bu.



Sudan Grass

All prices quoted on this page subject to market changes.



Soy Beans

## Soy or Soja Beans

**Northern Green.** Valuable for hay or soiling food for cows, hogs and sheep pasture, also green manure. They resemble the navy bean in general appearance. Like clover they are great soil enrichers, gathering in nitrogen from the air and storing it in the soil. Many tests show that they may be grown wherever corn will ripen. When planted after corn in rows  $2\frac{1}{2}$  feet apart with 6 to 8 plants to the foot of row if grown for the beans, requiring about one-half bushel of seed per acre when planted from planter attachment with corn 1 bushel plants about 8 acres. When grown for hay, it is preferable to plant the rows closer together or sow broadcast, at the rate of 40 lbs. per acre.

Prices subject to market change.

**MANCHU.** Iowa grown, half peck, 55c; peck \$1.25; bu. \$3.75. Burlap bags 15c each. American cotton grain bags extra, 50c each, holding  $2\frac{1}{2}$  bushels.

**MANCHURIA** — Week earlier than Manchu which we offer at the same prices as the Manchu.

**ITO SAN.** Iowa grown, half bu. \$2.00; bu. \$4.00. Burlap bags free.

## Marquis Wheat

A Thousand Dollar Prize Wheat of Canadian Origin

Unquestionably the best all-around spring wheat grown. Has yielded as high as 50 bushels to the acre. Extremely early and productive as well as hardy. A favorite in Minnesota and is the best beardless wheat for Iowa farmers. Grows stiff, strong straw and is two weeks earlier than Blue Stem. Easy to handle at harvest, for it is free from beards. Millers praise it highly. Price on application.

## "Speltz"

**SPRING EMMER.** A grain especially suited to dry lands. Being semi-hardy, it can be sown very early in the spring like oats. Emmer grows best in the dry prairie regions with hot summers, and even does well in poor or stony ground. It is a better drought and rust resister than either Oats or Barley, and it also yields considerably better. The feeding value is high. Sow  $1\frac{1}{2}$  bu. to acre. Price bu. (40 lbs.) \$1.40; 5 bu. \$6.00. Burlap bags free.

## Feterita

A Variety of Kaffir Corn, the New Drouth Resisting Plant

Feterita was introduced recently and has already in one year made a great name for itself in the drouth stricken southwest country. It is 25 days earlier than Kaffir Corn, out-yield Kaffir by far and is little affected by drouth. Per bu., \$1.50. Regular White or Red Kaffir Corn at \$1.25 per bu. Bags extra, 50c each.

## Buckwheat

This is very valuable for use on ground that cannot be seeded until late in the summer, as it can be sown as late as July 1st and still makes a good crop. Per bu. \$1.50. Bags extra, 50c each.

## Winter Rye

**ROSEN RYE.** This is a variety of recent introduction by the Michigan Agricultural College. It is a stiff-strawed, hardy, white winter variety of wide adaptation. It is developed from Russian parentage. Has large, white kernels, yielding in abundance. \$1.00 per bu. American grain bags, 50c each, extra.

## SPRING RYE

**SPRING RYE.** A good catch crop, as it may be sown later than most grains. Not so good a yielder as Winter Rye but matures a crop of grain like Spring Wheat the same year it is sown. Sow about  $1\frac{1}{2}$  bu. per acre. Crop is very short. Price, peck, 65c; bu. \$1.25; 10 bu. \$12.00. Bags 50c each.

## Barley Seed

**SIX ROWED.** There are many who want to obtain or change their seed of barley, but who do not want to pay the price necessary to ask for the newer sorts. This is a good standard sort. Price on application.

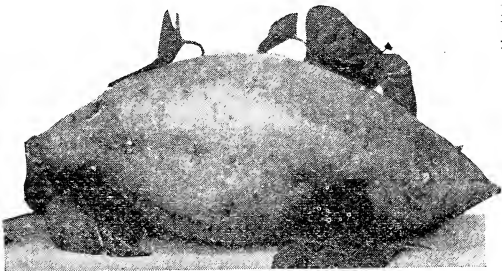
## Flax Seed

**NORTH DAKOTA CROP SEED (Minn. 25)** A wilt resisting Flax which is a selection made by the Minnesota Experiment station from stock received from the department of agriculture at Washington. Fine seed reclaimed for seeding rate of half bu. per acre. Price on application. Bags extra, 50c each.



## Canadian Field Peas

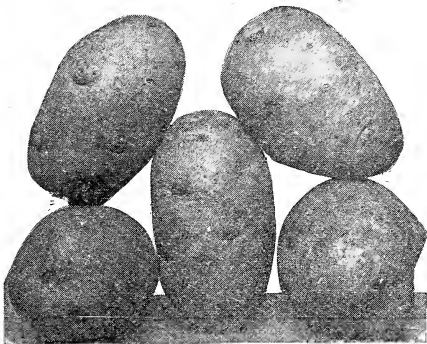
This is the variety of peas grown so extensively in the North and Northwest as a field crop. They are somewhat similar to the ordinary garden pea, but make longer vines and more pods. They should be sown very early in the spring, either alone or with oats or barley at the rate of from one to two bushels per acre. They may be cut and cured for hay or let ripen and threshed like small grain. Price subject to change, per lb., 10c; per bu. \$4.00. Bags extra, 50c each.



Yellow Jersey

## SEED POTATOES

All These Prices Subject to Market Changes



Red River Early Ohio

**Red River Early Ohio** The stock of Early Ohio we offer is grown in the Red River Valley of the North. They are from ten days to two weeks earlier than common stock; are pure bred and free from scab, and were raised especially for seed. If you want something earlier than anything else, don't fail to get a few bushels of these choice earliest. Price per bu. \$1.00.

**Irish Cobbler Potato** One of the most valuable first early potatoes. Very productive, globular in form, uniform in size, pure white. Per bu., \$2.00.

**Red River Triumph** The Triumph is the earliest of all varieties. The tubers are nearly round, smooth, medium in size, reddish pink in color. Price:  $\frac{1}{2}$  bu., \$1.25; Per bu. \$2.00.

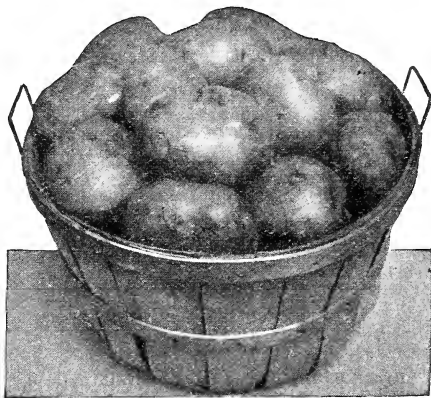
## Dwarf Essex Rape

An annual plant of the cabbage family, grows very quickly in any weather and makes a big, loose bunch of leaves, somewhat like cabbage leaves, but long and narrow; grows all summer without going to seed. When eaten off it sprouts up from near the ground. All kinds of stock eat it readily and thrive on it, but most valuable for hogs, especially young stock. Broadcast, 5 lbs. per acre on well-prepared land, early in the spring, and after it gets started it will keep a dozen shoats to the acre all summer without other feed. Price subject to change. Per lb., 15c; per 100 lbs., \$10.00 in original heavy burlap bags of 220 lbs. each; \$18.00 per sack; bag free.

## SWEET POTATOES

Grown Especially for Seed

The potatoes should be planted in a well prepared hot-bed. We can offer Yellow Jersey (the most popular Northern sort). Lb. 15c; 15 lbs. \$1.25; per measured bushel, \$2.50. Write for special prices on quantity.



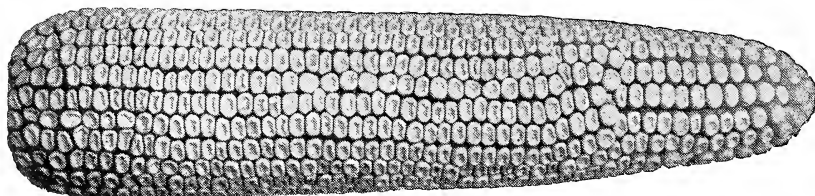
Carman No. 3

**Carman No. 3** This potato is of large and uniform size, yielding immense crops. It is of perfect form. It has but a few eyes, and they are shallow; the skin and flesh are extremely white, and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific. Per bu., \$1.50.

WE RESERVE RIGHT TO FILL ORDERS AT PRICES ON DAY SAME IS RECEIVED.

TIPPED  
SELECTED

## SEED CORN DEPARTMENT

TESTED AND  
GRADED

Improved Murdock

Our seed corn is grown here in the North, acclimated, selected and tested. We give no guarantee of crop, either expressed or implied, or guarantee of any kind, but if anyone wishes to test our seed corn before planting and is not satisfied with the test, he can return the seed and get his money back.

ALL PRICES SUBJECT TO MARKET CHANGES. Write, phone or call for price on quantity.

## Reid's Yellow Dent

**Reid's Yellow Dent.** This corn is light golden in color. The ears are 9 to 11 inches long; 18 to 24 rows of kernels, each containing 50 to 60 kernels. The cob is completely covered with solid corn. The kernels are moderately rough, rather narrow, medium in thickness, knit very closely together, with no lost space between the rows, and of all corn this is easiest to shuck. Shelled, per bu. \$2.60; on ear, in burlap bag, per bu., \$3.00.

## Improved Murdock Corn

This is a variety that has been blended by a cross with the well known Early Murdock and other late varieties producing a variety of corn that is a few days later than Early Murdock and a larger ear; better yielder. It is a 100 day variety. Price per bu. \$2.50.

## The Improved Leaming

**The Improved Leaming.** The Improved Leaming corn is a medium early yellow variety; large, slightly tapering ears, good grain, and medium sized red cob. It is one of the seven varieties recognized by the Illinois Experiment Station, where it has been first in yield more times than any other variety in "test of varieties." per bu., \$2.00.

## Silver King

**Silver King** has almost revolutionized corn growing in Southern Minnesota, South Dakota and Northern Iowa. It will yield more bushels of fine corn than any other dent variety.

**Description.** Ears averaging 8 to 9 inches, always filled out clear to the tips, and very uniform in size and type. The corn is pure snow-white in color with good length kernels set compactly in straight rows. The corn is a strong grower, early enough to mature as far north as Oshkosh, Wisconsin, and is especially adapted to resist cold weather. It has a decided double-ear characteristic, one reason for its fine yield records. Per bu., \$2.00.

We have other varieties of field corn and shall be pleased to quote prices on application for any other variety suited to our climate. All prices subject to market changes.

WE RESERVE RIGHT TO FILL ORDERS AT PRICES ON DAY SAME IS RECEIVED.

## Michael's Early Murdock

**Michael's Early Murdock.** A beautiful yellow Dent variety, well adapted on account of its extreme earliness, to Southern Minnesota, South Dakota and the Northwest Corn Belt Section. It was bred up in Wisconsin by careful selection. The ears have well filled out tips, 16 to 20 rows, and very compact on the cob, something like Reid's Yellow Dent, fairly smooth on the outer edge and uniformly a rich yellow. The stalks medium in height, stout and stocky, with ears borne at regular, uniform distance from the ground. It is a ninety-day variety. Sample on application. Price for selected seed, shelled, per bushel, \$2.00.

## Smut Nose Flint

**Smut Nose Flint (8-rowed).** A yellow flint corn blazed with red at one end. This is a very early variety, and a great favorite in many localities. Average length of ear, 10 inches. Average height of stalk, about 7 feet. Average distance base of ear from ground, 3 feet. Per bu., \$2.00.

## Iowa Silver Mine

**Iowa Silver Mine.** This is more generally grown throughout the corn belt and more widely and favorably known than any other white corn. It is a sure cropper, middling early, deep-grained, pure white, and a good corn in every way. Per bu., shelled, \$1.75.

## POPCORN

**Japanese Dwarf Rice.** A very tender and almost hullless popcorn. Ears short and chunky; heavy yielder and is regarded as the coming commercial variety and the right and the proper thing to raise now to get the highest market price in popcorns. Price on ear, 15c per lb., 10 lbs., \$1.00.

## Michael's Golden Sugar

This is a cross between the Japanese variety of Pop Corn and the Early Golden Bantam sweet corn, partaking of the sweet corn parent in the richness, in taste and of the pop corn parent in shape of kernel and size of ear. Of recent introduction and one of the very finest things in pop corn that has ever been introduced. Price: on the ear, 25c per lb.; 5 lbs. \$1.00.

**White Rice.** Most popular grain pointed variety. Price: 12½c per lb. on the ear; 10 lbs., \$1.00.

## DEPARTMENT OF BULBS, ROOTS AND FLOWERING PLANTS

## Peonies

**Peonies.** These big hearted flowers are as much liked today as they were by our grandfathers a century ago. Peonies will grow and do well anywhere the plant will grow. Give them a deep, rich soil, plenty of barnyard manure, or better still, manure from the hen house, and they will repay you one hundred fold. The Peony, once planted, lasts a generation and grows better every year. They are perfectly hardy and need no winter protection whatever.

**Festiva Maxima Peony** Is the Queen of all. The acme of perfection, with every point of excellence. Without exception the plant itself is one of the hardest, most robust and powerful growers of the entire list of peonies. The flower, a glorious form of purest white combines great size with wondrous beauty. Flecked here and there with a speck of crimson which seems to bring out the white in clearer relief. 3 to 5 eye roots. Price: Each, 40c; 2 for 75c; 6 for \$2.00; 1 doz. \$3.50. Large undivided Field Clump, \$3.00.

**Edulis Superba** Exceedingly fine, vivid rose-colored flowers, high, full center, very compact, very early and free blooming, highly perfumed. The best fragrant rose-colored peony. 3 to 5 eye roots. Price: 35c each. Undivided clump, \$2.50.

**Felix Crousse.** The ideal self-colored red Peony; large, globular and compact, an even shade of bright red without trace of any other color; a strong, vigorous grower. 3 to 5 eye roots. Price: 75c each. Large undivided clump, \$3.00.

**Golden Harvest** Flower creamy yellow with carmine markings and bluish guards. 3 to 5 eyes, 50c each. Undivided field clumps, \$2.50.



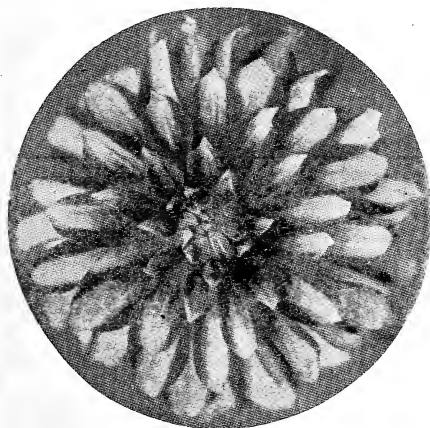
FESTIVA MAXIMA in full bloom

**Humei** Sweet scented carmine pink with immense flowers, late bloomer. 3 to 5 eye roots, 35c each. Large 3-year old undivided field clumps, \$2.00 each.

**Mixed Peonies** Our Mixed Peonies are made up of broken lots of our very best named varieties, some of which are worth five times the price we ask for them. Price: 25c each; 6 for \$1.40.

## Dahlias

As a home flower nothing equals the Dahlia. Plant the roots two feet apart, about four inches deep; lay them flat on side.



**American Beauty** Brilliant, crimson red, rich and glowing, similar in shade to the American Beauty Rose. One of the most prolific bloomers ever introduced. Price, 25c each.

**Souvenir Douzon** (Decorative). An immense flower with broad, flat petals and full to the center. The largest red in the decorative section. Price each, 25c.

**Purple Manitou** Immense flower; often solid purple in color, sometimes mottled with crimson; very attractive. Price, 25c each.

**Tango Masterpiece** A gigantic flower of clear, pure color, without shading; borne on long stems. Blooms early and continuously through the season. Color, clear rich tango. It is indeed a masterpiece. Height, 4 feet. Price, 35c each; 3 for \$1.00.

**Delice** Its beautiful soft, yet lively color, a glowing rose-pink, together with its perfect shape, stout, stiff stems, which hold the flowers well above the foliage. Price 25c each; 3 for 70c.

**Moonbeam** (1916). (Decorative). An immense flower, borne on excellent stems. Color, clear canary yellow. One of the very best of the light yellows. Plant a sturdy grower. Blooms very freely and an excellent keeper when cut. Price, 25c each.

**Gaiety** A superb new decorative, vivid scarlet, heavily marked with pure white. Stems are long and flowers are produced freely. Price, 25c each.

**Mrs. Winters** (Decorative). This superb white Dahlia is generally and favorably known. Always reliable, always satisfactory. As a white it has neither superior nor equal. Price: 25c each.

**D. M. Moore** (Show). A flower of mammoth size, produced in profusion on long, stiff stems. Its color is a deep, velvety maroon. It has no equal in its color. Price, each, 25c.

**Souvenir Franz Liszt** (Peoneo flowering). Dark purple, maroon. Veined and shaded with white. Flowers very large. Price, each 35c.

**Mixed Sorts** Various colors and kinds, mixed Price, each, 15c; 2 for 25c.

## Canna Roots and Plants

The king of bedders. The plant requires deeply dug, well enriched soil. Plant when ground is warm. Set the taller kinds for the center and dwarf kinds for the outer edges. Canna plants ready about May 1st.

**King Humbert** (4 ft.) Bronze foliage. Velvety, orange scarlet, flecked carmine. heartshaped ears of a deep purple. Price: per root, 15c each; doz., \$1.75.

**Beacon** (4 to 4½ ft.) Heavy, lateral growing rich green foliage. Flowers of very rich cardinal, which are produced in great masses. Its immense flowers with handsome foliage are very striking. Per root, 15c each; 3 for 40c; doz., \$1.50.

**Wyoming** (7 ft.) Purple foliage. One of the most majestic Cannas. Blossoms orange colored, true Orchid shape, with large, rounded petals. Per root, 10c; doz., \$1.00.

**Queen Helen** (Yellow Humbert). Identical with bronze King Humbert in growth. Flower pure yellow, sometimes dotted with red and sometimes the petals are red and yellow mixed. The foliage rich green. Size about 4½ feet. Roots, 15c each; \$1.75 per doz.

**The President** The best new Canna yet introduced, flowers a glowing scarlet of immense size; foliage rich green, broad leaf of lateral growing habit, borne on a stout, heavy stock about 4 feet high. This combination of flower, foliage and stock are qualifications of special value in the enchanting effect in any bed of Cannas. Roots 25c each, \$2.50 per dozen.

**Musafolia** (8 ft.) Green foliage with Bronze border. Grown for foliage only, which on account of its enormous Mussa-like leaves is used for making screens and back-grounds. Per root, 5c; doz., 50c; 100, \$3.75.

### CANNA PLANTS (Potted)

**Canna Plants.** The Canna is a tender, subtropical plant; roots easily affected by severe weather changes and often rot in the ground by being planted too early. The most effective way of planting them is to use plants which are started in a greenhouse early in the season and in 4 in. pots having 2 to 5 leaves on them by the first of May, at which time, weather permitting, they can be planted outdoors.

	Per Doz.
<b>Wyoming</b> , Tall bronze, orange orchid flower grown in 4 inch pot.....	2.75
<b>Beacon</b> , Dwarf Green, red orchid flower, grown in 4 in. pot .....	3.00
<b>Humbert</b> , Dwarf bronze orange scarlet flower grown in 4 in. pot .....	3.00
<b>President</b> , Dwarf green, scarlet orchid flower grown in 4 in. pot. Each, 35c.....	3.00
<b>Queen Helen</b> , Medium size green yellow flower grown in 4 in. pot. Each, 25c .....	3.00
<b>Musafolia</b> , Tall, green foliage, small red flower grown in 4 inch pot, foliage effect only .....	2.50

## Gladiolus Bulbs

Gladiolus. Planted every two weeks from time soil can be cultivated until July; will give a lot of bloom from June until cut down by frost. Plant 6 inches apart in rows. We quote only first size, first quality bulbs.

**America** Soft lavender pink, very light, almost a tinted white. Large, spreading blooms, immense flowers, first size bulb. 5c each; doz., 46c; per 100, \$3.00.

**Empress of India** Dark, blackish-red, the darkest of all Gladioli; immense flower, and extremely rich, first size bulb. Each, 10c; doz., \$1.00, per 100 \$6.50.

**Mrs. Frances King** Effective Flower spike with a good line of reserve buds continually opening. Flower 4½ inches, a brilliant vermilion scarlet. Each, 5c; doz., 50c; per 100, \$3.00.

**Panama** A new seedling of America, which is a much deeper pink. Spike very long with flowers large and well arranged, first size bulb. Each, 8c; 2 for 15c; doz., 75c; per 100, \$6.00.

**Mrs. Frank Pendleton** In addition, the size of bloom is not exceeded by any other. One of the most exquisitely colored. The color is a delicately flushed salmon pink, first size bulb. Each, 10c; doz., \$1.00; per 100 \$7.00.

**Princeps** The flowers are 5 to 6 inches broad. The color is brilliant scarlet crimson, carrying mostly three broad, white blotches on the lower petals, first size bulb. Each, 10c; per doz. \$1.00.

**Niagara** In color the flowers are a delightful cream shade with the two lower petals or segments blending to a canary yellow. The throat is splashed with carmine, first size bulb. Each, 8c; doz. \$1.00; \$6.50 per 100.

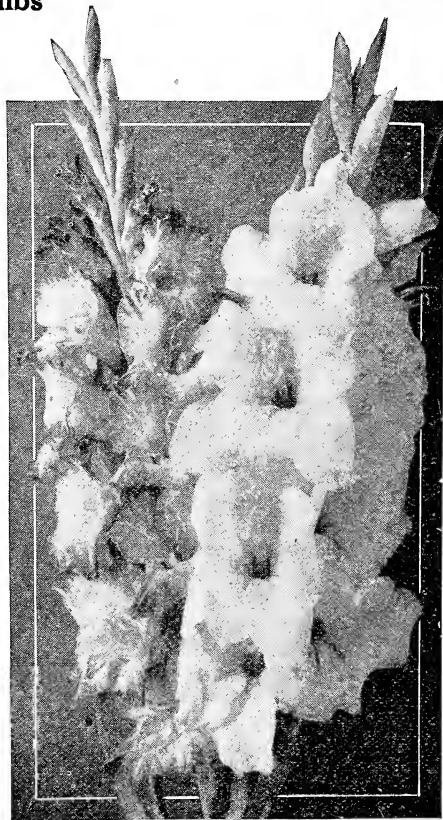
**Le Marechal Foch** A Holland introduction. Very delicate pink. A seedling of "America," producing flowers twice the size of its parent. A heavy propagator and an early forcer. First size bulbs 10c each; \$1.00 dozen.

**Herada** New and elegant. The blooms, which are of immense size, are pure mauve, glistening and clear. Tall, straight spikes. First size bulbs 10c each; \$1.00 per dozen.

**Mrs. Watt** Glowing American Beauty shade of wine-red. Well open flowers on an erect spike. First size bulbs 10c each; \$1.00 per dozen.

**Schwaben** (See also "Morning Glory.") Clear canary yellow with a touch of dark red in the throat. A strong grower and a popular Glad. First size bulbs 10c each; 75c per dozen.

**IMPORTED BULBS MIXED.** First size, first quality bulbs, beautiful blend of colors. Doz. 40c; \$2.75 per 100.



**NATIVE MIXTURES.** All kinds home-raised bulbs. Doz. 25c; \$2.00 per 100.

# HERBACEOUS FLOWERING PLANTS, ROOTS AND BULBS

## Lilies

**Auratum Lilium** (Gold Banded Lily). The grandest of all hardy Lilies; flowers white, spotted with maroon, having a bright yellow band through each petal. Each, 25c; doz., \$2.50.

**Auratum Rubrum** (Lily). Enormous flowers, sometimes measuring 10 inches across; pure white, beautifully spotted and with a deep crimson stripe. Each 25c; doz., \$2.50.

**Lily Album** One of the most popular of all the pure white Lilies. Price: each, 25c; per doz., \$2.50.

**Lily Tigrinum** (Tiger Lily). Single and hardy native Lily, orange spotted with purple. Price each, 15c; per doz. \$1.50.

**Lily Tigrinum** (Double Tiger Lily). Well known variety of rich orange blossom. Price each, 25c; per doz., \$2.50.

**Lilium Candidum** (Madonna or Annunciation Lily). This is one of the oldest, loveliest and best known Lilies. The flowers are snow white, with the most delightful fragrance. Each, 25c; doz., \$2.50.

**Lily Funkia Sieboldiana** A bell-shaped lilac colored flower that blooms in great profusion. Price each 15c; six for 75c; per doz. \$1.25.

**Lily of the Valley** The most charming of the spring perennials. Pips, each, 5c; doz., 50c; large clumps, each, 25c.

## Hardy

**Bleeding Heart** (DICENTRA EXIMIA) Ever-blooming Variety. Flowers deep rose, heart-shaped, tapering to a neck, which is longer and narrower than in *Formosa*, the tips of the outer petals much longer. Fern leaved. Price per clump, each, 75c.

**Bleeding Heart** An old-fashioned favorite, equally well adapted for forcing as for planting the open border. Price: Clumps, each, 50c.

**Campanula** (Bell Flower). Bell-shaped flowers, well known and most easily grown. Price: Field Clumps, each, 25c; doz., \$2.75.

**Columbine** (Rocky Mountain). (The Colorado State Flower). Flowers very large; lavender and white; each root forms a large clump. Each 25c; doz., \$2.50; Potted Plants, doz., \$2.00.

**Coreopsis Grandiflora** A showy border plant some orange yellow through the season. Each, 20c; doz., \$2.00.

**Delphinium** (Hardy Larkspur). Few plants are so handsome in the garden as these perennial Larkspurs. Each, 25c; doz., \$2.75.

**Chrysanthemums** These are gaining in popularity in recent years for the reason that they establish themselves to withstand the severity of winter.

## OUTDOOR VARIETY

**PINK** (Old Pink) Hardy, large flowering, September and October bloomers. Each 25c; \$2.75 per dozen.

**WHITE** (Snow Clad) Hardy, large flowering, September and October bloomers. Each 25c; \$2.75 per dozen.

**YELLOW** (Canariense) Hardy, large flowering, September and October bloomers. Each 25c; \$2.75 per dozen.

**CRIMSON** (Autumn Glow) Hardy, large flowering, September and October bloomers. Each 25c; \$2.75 per dozen.

Half dozen, either variety, \$1.40.

**Golden Glow** (Chrysanthemum). A large, very showy plant, attaining a height of six feet, producing hundreds of flowers resembling yellow Chrysanthemums. Each, 15c; doz., \$1.50.

See page 20 for perennial flower seed

**Dianthus** (Hardy Garden Pinks). Charming summer flowering border plants, more or less fragrant. Two-year clumps, each, 20c; doz., \$2.25.

**Digitalis** (Foxglove). 3 to 5 feet. Stately old garden favorites for garden and shrubbery borders, and naturalizing in suitable places. Field Clumps, each, 25c; doz., \$2.75.

**Gaillardia** A showy flower, beginning to bloom in June and continuing through the season. Petals vary from scarlet-orange to crimson. Field Clumps, each, 25c; doz., \$2.75.

**Hardy Phlox** This is one of the most attractive flowers in summer decoration. Colors range from bright red to deep crimson. A hardy perennial, once planted they last for many years. Mixed colors, 10c each; \$1.00 per dozen.

**Miss Lingard.** An ever-bloomer, pure white, earliest of all. Price, per each, 25c; per doz., \$2.75.

**Richard Wallace.** White, with red eye. Price, per each, 25c; per doz., \$2.50.

**Rosenberg.** Reddish-purple, very large flower. Price, per each, 25c; per doz., \$2.75.

**Hollyhock Roots** This old-time flower appeals to our sentimental affection of the long ago and is still dear to us. A good back-ground for the lower growing plants. Separate colors, pink, white, crimson or yellow. Roots, each, 15c; doz., \$1.50.

**Shasta Daisies** (Alaska). Immense snow white flowers. Bloom through the season. The best daisy in the list. Each 25c; doz., \$2.75.

## Not Hardy

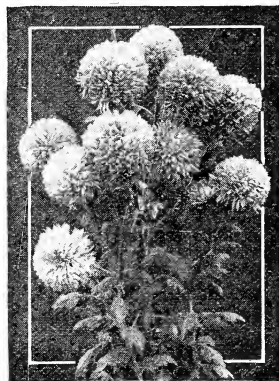
**Begonias** (Tuberous-Rooted). For brilliancy of color, duration and profusion of bloom, few plants can compare with the tuberous-rooted Begonias offered. Price on application.

**Elephant's Ear** (*Caladium Esculentum*). Grand tropic-looking plant. In rich soil, if freely watered, they will produce enormous leaves, frequently four feet long, three feet wide. Height, 4 to 5 feet. Fair sized bulbs, each, 15c; medium sized bulbs, 25c; monster giant bulbs, 50c each.

**Tuberoses** Large blooming bulbs; this is one of the bulbs all should have. Synonym of sweetness and purity. Price: Each, 5c; 12 for 50c.

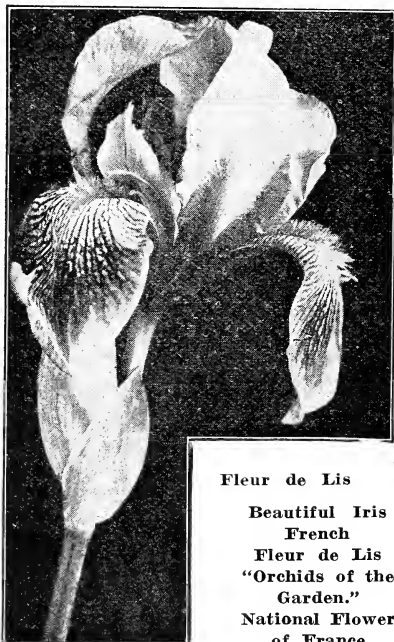
**Montbretias** One of the brightest and most winsome flowers we know of. From July to October they are one mass of blooms; graceful, bright and cheery. Each, 6c; doz., 50c.

with large, handsome flowers; blooms



Hardy Chrysanthemums

## Hardy Irises



Fleur de Lis

Beautiful Iris  
French  
Fleur de Lis  
"Orchids of the  
Garden."  
National Flower  
of France

There is a peculiar charm about the Iris that appeals to all lovers of the beautiful in flowers. The blossoms are of rich and varied colors, quaint forms and some varieties are very fragrant.

**Culture.** A very sunny location suits them best. They can be planted in the spring, but the most favorable time is after blooming, late summer or early autumn.

**Mixed Iris** These are made up from choice named varieties, fine flowered sorts in brilliant colors. Each, 5c; doz., 50c; 50 for \$1.75.

**Florentine Alba** Very large flower, pure white of a distinct individuality and rare. Each, 10c; doz., 75c; per 100, \$5.00.

**Pallida Dalmatica** One of the most beautiful of the Fleur de lis Iris.

Exquisite shade of lavender. Each, 10c; doz., \$1.00.

**Juniata** Standard petals and falling petals; clear blue; large, fragrant flower. The tallest of the Bearded Irises, with unusually long, drooping foliage. Noted for its fragrance. Each, 35c; 3 for \$1.00; per doz., \$3.75.

**Kochii** Richest of all the clear dark purple, large flowering Iris. Immense bloom of the Black Prince type. Each, 15c; doz., \$1.50.

**Dwarf Iris** (Chamari). Very dwarf. Earliest bloomer of all, blooming early in April. Deep rich purple flower, fine for border work. Each, 5c; doz., 75c; 100, \$4.00.

**Iris Sibirica** (Siberian). A tall slender growing plant with flowers of Fleur de Lis structure but smaller and more numerous blooms; plant forms heavy clumps; blooms freely deep blue blossoms. Very hardy. Price 5c each, 50c per doz., \$2.50 per 100. Large clumps 60c each.

## House and Conservatory Plants

**Asparagus Plumosis** (Lace Fern). Fine for table decoration. Suitable for hanging baskets and porch boxes. 6-inch specimen plants, each, \$1.00; 4-inch pots, each, 50c.

**Asparagus Sprengerii** (Emerald Feather). For foliage only; for porch boxes and hanging baskets. Price: 3-inch pots, doz., \$2.50; 4-inch, 25c each, \$3.00.

**Cyperus Alternifolius** (Umbrella Plant). Excellent house or aquatic plant. 3-inch pots, each, 50c; 4-inch pots, each, 75c.

**Dracaema Indivisa** Much used for vases, window boxes and hanging baskets. 5-inch pots, each, \$1.00; 6-inch pots, each, \$1.50.

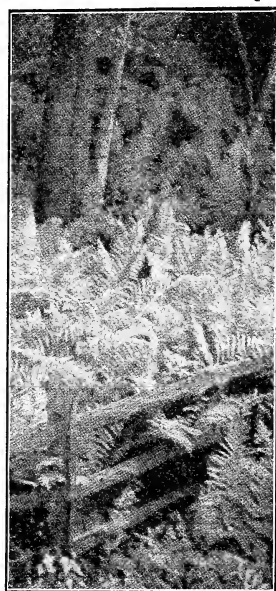
**Boston Ferns** Long, graceful, drooping fronds. Called by many the Fountain Fern. Each, 4-inch pots, 75c; 6-inch pots, \$1.00.

**Dish Ferns** We sell thousands of these handsome ferns, dwarf in habit, for fern dishes. Each, 10c; doz., \$1.00.

**Pandanus** (Screw Pine) Utilis. Green leaves, red spines. Variegated Veitchii green and white. 4-inch pots, each, \$2.00; 6-inch pots, each, \$3.00.

**PALMS** We have *Kentia Belmoreana* and *Fosteriana*, and *Phoenix Canariensis* and *Roebelenii*; fine plants. Price: 4-inch pots, each, 75c; 6-inch pots, each, \$2.00.

Hardy Ferns  
FOR OUTDOOR CULTURE  
Many of our native hardy outdoor Ferns take as readily to culture as most of our garden flowers. The Ostrich Fern, an ostrich feathered foliage type, is the most popular variety for garden cultivation. With a little well-rotted manure mixed with the soil or some leaf-mold from the woods, it will flourish as well as in its wild state.  
MONSTER ROOTS. Price: 20c each; 6 for \$1.00; doz., \$1.50.



HARDY FERNS in their native heath

## Autumn Planting Bulbs

FOR EARLY SPRING FLOWERS.  
SEASON TO PLANT, OCTOBER AND NOVEMBER.

Hyacinth, Tulips, Narcissus, Jonquils, Crocus, and Snowdrops, which bloom so early in the spring are for autumn planting only.

Many persons, seeing these beautiful flowers all bloom in early springtime, think they can get some, too, right away, but alas, their surprise and chagrin when informed that to have them in Springtime all bloom the bulbs must be planted the autumn before. We have a catalog of all these Bulbs and Herbaceous Perennial Roots for autumn planting, prices, descriptions, etc., free for the asking.

Remember—We have a complete line of these bulbs in season. September until December.



# Plant Department

## Flowering Plants For Hanging Baskets

We grow large quantities of all these popular varieties of flowering plants.

**Hanging Baskets** All filled with beautiful plants and swinging from the ceiling on porch or veranda, are charming and attractive to the home. Each, \$2.50 and \$3.00, according to size and plants used.

**Plumosis Hanging Baskets** Dark green feathery foliage. Price: Each, \$3.50 to \$4.00.

**Sprengerii Hanging Baskets** Everlasting rich green foliage. Price: Each, \$3.00 to \$3.50. Wire Hanging Baskets empty, 60c each.

**Green Sheet Moss** For lining hanging baskets. Price: Per lb., 35c.

**FOR BEDDING, WINDOWBOXES AND VASES**

**Aster Plants** American type. American purple and American Beauty Rose. Giant Branching. Potted plants, doz., 50c; mixed in baskets of 1 doz. 40c; in bulk 50 for \$1.25; per 100 \$2.00.

**Coleus Plants** For border work. Either golden, green, red, black and variegated foliage. Price: 2½ inch pots, doz., 75c.

**Dusty Miller Plants** For foliage only; border plant of the finest sort. Price 2½ inch pots, doz. 75c; baskets, 12, 50c.

**Lobelia Plants** Easy culture, used in vases and border; blue flower. Price: 2½-inch pots, doz. \$1.00.

**Pansy Plants** Mixed colors, finest French strains, large fluted flowering sort. Price: Potted, 2½-inch pots, each, 8c; doz., 75c. In baskets, earth, basket of doz. 50c; in bulk 50 for \$1.50; per 100 \$2.75.

**Petunia Plants** Single large fringed flowering. Price 2½-inch pots, each, 15c; doz. \$1.00. Double flowering sorts, each, 25c; doz. \$2.50. Balcony 2½ in. pots, 75c per doz., in baskets, 50c; in bulk, 50 for \$2.00; per 100, \$3.50.

**Verbena Plants** Single plants of this pretty annual creeper will carpet a space 8 to 10 inches in diameter with neat foliage and scores of fine flowers. Price: All colors, 2½-inch pots, doz., 75c; growing in basket of earth, basket of doz., 50c.

## Vegetable Plants

We grow large quantities of Vegetable plants and Roots, and can supply all the varieties listed below in their proper season. Well grown and packed to carry a long distance, they can be shipped from the beds on a day's notice. All prices subject to season conditions, stocks on hand and change at time of purchase. Write for spring prices.

**Cabbage Plants** Transplanted plants, early sorts, ready April 15th; late sorts ready May 10th. Doz., 15c; 100, \$1.00.

**Cauliflower Plants** Early Snowball and second early. Transplanted Plants. Doz., 25c; 100, \$1.75.

**Celery Plants** Ready May 10th. Seedling stock. Easy blanching. Per 100, 75c; Transplanted stock, per 100, \$1.50.

**Egg Plants** In pots or growing in basket of earth only. Basket earth, 50c; Potted plants, doz., 60c; in bulk, per 100, \$1.50.

**Pepper Plants** Bull Nose and Chinese Giant in bulk. Doz., 25c; in basket earth, growing, doz., 50c; in bulk, 100, \$1.50.

**Sweet Potato Plants** Ready about May 5th. Yellow Jersey plants. Price: 100 plants, 75c; 500, \$3.25; 1,000, \$6.00.

**Horseradish** Large roots, each, 10c; doz., 75c; Special price in quantities.

**Chives** Perennial onion. Per clump 25c.

Write for special price list of plants in spring before planting.

## GERANIUMS

Prices do not include pots.

**Geranium Plants** The grandest of all bedding plants. Double flowering dark red, pink and white; potted plants only in full bloom. While grown in pots plants are taken out with ball of dirt and wrapped for shipping.

**S. A. Nutt.** Best of the dark crimson-scarlet bedders. Perfectly double and a remarkably free bloomer; blooms all summer.

**S. A. Nutt.** dark red, double flower, 2½. in pots, per doz. \$1.50.

**S. A. Nutt.** dark red, double flower, 3 in. pots, per doz. \$2.40.

**S. A. Nutt.** dark red, double flower, 4 in. pots, per doz. \$2.80.

**Rickert.** light red double flower, 4 in. pots, per doz. \$3.00.

**Perkins.** ideal pink, double flower, 4 in. pots per doz. \$3.00.

**Poitevine.** salmon pink, double flower, 4 in. pots, per doz. \$3.50.

**Buchner.** white, double flower, 4 in. pots, per doz. \$3.00.

**Apple Blossom.** single flower, 4 in. pots, per doz. \$3.00.

**Ivy Geranium.** vining variety, 4 in. pots, each, 30c.

**Madame Solleioi.** variegated foliage, 3 in. pots, each \$1.00.

**Salvia Plants** Richest scarlet flower; finest of all bedding plants; long spikes of dazzling red, lasting all summer until frost. Price: 2½-inch pots, doz., 75c; 4 in. pots, doz., \$2.50; growing in baskets, earth, basket of doz., 50c.

**Sprengerii** (Emerald Feather). For foliage only; for porch boxes and hanging baskets. Price: 3-inch pots, doz., \$2.50; 4-inch, 25c each. \$3.00.

**Vinca Vines** For foliage only; variegated and green; hanging baskets and porch boxes. Price: 2½-inch pots, doz., \$1.50; 3-inch pots, doz., \$2.25; 4-inch, 25c each, \$3.00.

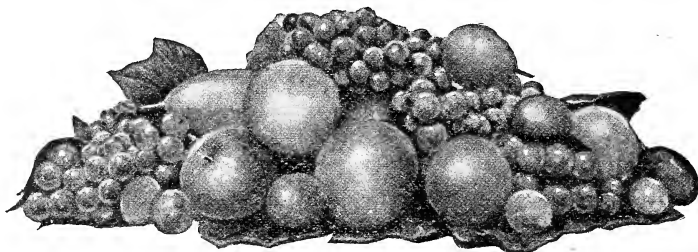
**Tomato Plants** Dwarf Champion (Tree). Ready about May 1st. Earliana, Bonny Best and other leading sorts. Per doz. growing in basket earth, basket, 25c; Potted plants, 2-inch pots. Fancy plants, doz., 50c; Transplanted Plants. Loose in bulk. Doz., 15c; per 100, \$1.00; 1,000, \$9.00.

Seedling Plants. 100, 50c; 1,000, \$4.50.

**Asparagus Roots** Crowns should be set early in spring or late in fall. Mammoth White or Green Palmetto. 2-year-old roots. Doz. 25c; 100, \$1.50.

**Rhubarb or Pie Plant** (Michael's New Seedless). This new variety has been propagated from root divisions until the seedling feature is largely eliminated; it seldom throws seed stock. It is pink meaty, very juicy, brittle, tender and a powerful grower. Root division of 2 to 3 eyes. Each, 15c; per dozen, \$1.50.

**RHUBARB**—Common variety, 2-year No. 1 roots. Each, 10c; per dozen, 75c.

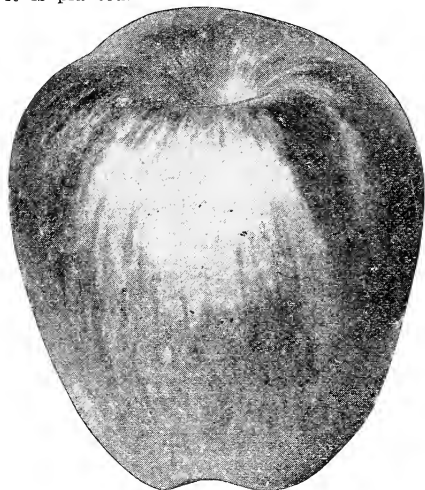


## NURSERY DEPARTMENT

IMPORTANT TO PROSPECTIVE CUSTOMERS OF ROOTS, BULBS, PLANTS, NURSERY STOCK, ETC.

We handle only such kinds and varieties of trees, shrubs and plants as grow here and stand this climate. Stock strong, true to name, dug when wanted and roots carefully packed in wet moss for shipping. All prices subject to market change.

**OUR NURSERY DEPARTMENT** is in the basement of our concrete seed store building at 316 Pearl Street, well lighted with electricity as a salesroom and an ideal place for keeping nursery stock, bulbs and roots just as fresh and nice for two or three weeks as though they were dug out of the ground and where too, there can possibly be no effect from weather changes that are often severe, damaging shrubbery that is not well protected after it is dug in the spring time and before it is planted.



### THE "TRUE DELICIOUS" APPLE

The Delicious originated 20 years ago at Peru, Madison Co., Iowa. The original tree still flourishes, bearing an annual crops of beautiful fruit. Fruit is large, with the surface almost covered with a most beautiful brilliant dark red, blending to golden yellow at the blossom end. In quality it is unsurpassed, flavor slightly acid, delightfully fragrant, flesh fine-grained, crisp, juicy, melting and delicious. Good keeper, coming out of storage in March or April in perfect condition. 5 to 6 ft. select trees, 75c each.

### Summer Apples

**Yellow Transparent** One of the earliest apples. Tree is vigorous, good bearer. Two-year old trees frequently produce fruit. Medium large, smooth transparent. Skin is pale yellow when ripe. Flesh white, and splendid quality. Does well most anywhere. Is perfectly hardy, 5 to 6 ft., 60c each.

**Duchess of Oldenburg** From Russia, extremely hardy, medium size, yellow with red stripes. Somewhat sour, fine for cooking. A couple of these trees should be in every orchard. Will not keep long when fully ripe. 5 to 6 foot trees, 75c each.

Prices quoted are for select, hardy trees, **IOWA GROWN**, adapted to this climate, 5 to 6 ft specimen stock.

SEE NEXT PAGE FOR DWARF APPLES AND CRAB APPLES

### Fall and Winter Apples

**Wealthy** A seedling originated in Minnesota; very hardy; an abundant and early bearer; fruit large, dark crimson; flesh crisp sub-acid, white tinged with red; good quality. Tree a fine, upright grower, both in the nursery and orchard. Season, October to December. 5 to 6 ft. trees, 75c each.

**McIntosh Red** Canadian (Ontario) origin; extremely hardy and does well even in the exposed cold regions of Montana and Wyoming and very popular in the Northeastern states. It bears a big red apple above medium; a beautiful crimson; flesh snow white; slightly acid and a wonderful keeper. It is growing more popular wherever it is known. 5 to 6 ft. trees, 75c each.

**Hibernal** Russian origin. Absolutely hardy in this climate. It represents the hardiest of all Russian races of apples. Tree vigorous, wide-spreading and productive. Fruit very large with a dull bronze color over a greenish yellow. Flavor sub-acid, splendid for cooking. It is often used as a main stalk for limb grafting of other varieties. 5 to 6 foot trees, 75c each.

**Northwestern Greening** Tree of Wisconsin origin and extremely fine shaped. Fruit large and greenish-yellow; good quality. It is claimed to keep well until June. 5 to 6 ft. trees, 75c each.

**Peerless** Tree a very fine, straight, upright grower. Originated from seed of Duchess, near Faribault, Minnesota. It is quite hardy and productive; fruit of medium size, color red or a yellow-greenish; perfectly hardy here. 5 to 6 ft. trees, 60c each.

**Iowa Blush** Originated in Iowa. Tree very fruitful, strong grower. Fruit rather conical, surface smooth, yellow, with bright mottled red blush, white flesh, juicy and rather sub-acid. November to January is the season it is good to eat. 5 to 6 ft. trees, 60c each.

**Jonathan** A brilliant dark red apple of excellent quality. Tender, spicy, rich and juicy. It is one of the most popular varieties for commercial planting. October to March. 5 to 6 ft. trees, 60c each.

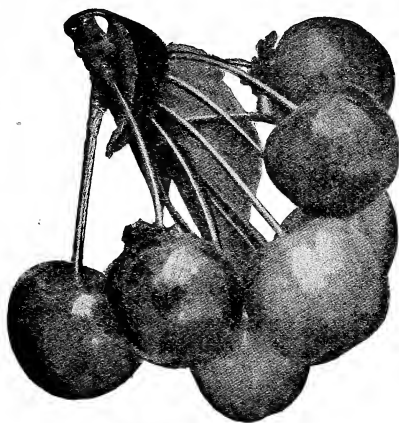
**Winesap** Old favorite, vigorous grower, and hardy. Fruit bright red, long keeper. 5 to 6 ft. trees, 60c each.

**Ben Davis** A tree highly esteemed in the West. Fruit conically shaped, striped and of fair quality. Very productive. 5 to 6 ft. trees, 60c each.



## CHERRIES

The Cherry is the most valuable of all fruit trees for the Northwest; perfectly hardy, grows and thrives on any of our soil. An annual bearer; ornamental as well as valuable.



**Early Richmond**

**Early Richmond** An early red, acid cherry, very valuable for cooking. Tree a free grower, hardy, healthy and very productive. It is the leading market variety for this section. Ripens in June. See picture in colors outside back cover.

**Large Montmorency** Large, red, acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.

**English Morello** Trees very hardy and great bearers, the most valuable of the late varieties. Fruit large, round; skin dark red, becoming nearly black when fully ripe; pleasant sub-acid flavor when fully ripe. Season, July and August.

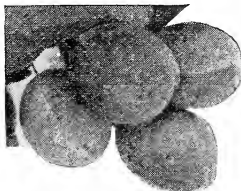
**Wragg** Originated in Iowa. Large, dark red fruit, dwarfish growth. Very hardy, vigorous growth. Very heavy bearer, fine commercial variety.

**Black Tartarian** Very large, fruit of purplish-black color, flesh is mild and sweet. Tree is vigorous, upright grower, and immense bearer. A sweet cherry of the O'-heart type.

**PRICES:** Cherry, standard varieties, very select, picked trees, 5 to 6 feet, each \$1.00.

### Compass Cherry Plum

Absolutely hardy everywhere. Originated in Minnesota. A cross between the Sand Cherry, Morello Cherry, and the Miner Plum. The tree is a regular and heavy bearer, and produces fruit the next year after setting out. Its early bearing is truly wonderful, 75¢ each, 3 for \$2.00.

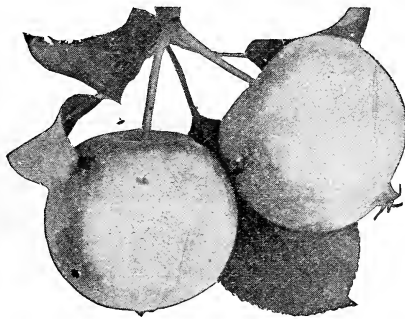


**Compass Cherry**

**Zumbro Cherry** A new variety of fruit propagated and introduced by the Minnesota Fruit Breeding Farm and is the result of a cross breeding between the California Black Sweet Cherry and the Minnesota Wild Cherry. Fruit is about the same size as the Black Sweet Cherry and carries with it when cooked the Sweet Cherry flavor. Ripens about August 20th and hangs well to the tree. Lasts from 2 to 3 weeks in fruiting. The stones are very small and separate easily from the flesh which is a good flavor with crispness somewhat resembling its Sweet Cherry parent. Price, \$1.00 each.

## Crab Apples

**Whitney No. 20** (Hybrid Crab). Fruit very large for a hybrid crab, apple striped red with yellow flesh; rather juicy and grained. Healthy and vigorous tree, upright, rather conical in growth and a beautiful tree.



**Florence Crab**

**Red Siberian** About an inch in diameter, grown in clusters; bears young and abundantly. August to September.

**PRICES:** These prices are for selected crab trees, 5 to 6 ft., each, 70¢.

**The Florence Crab** The most valuable crab ever fruited here. Annual bearers, usually fruiting the second season after planting. Early, large, beautiful, excellent, youngest bearer, most prolific of all. Hardest and most ornamental fruit tree we grow. Exempt from blight.

## Dwarf Apples

The Dwarfed Apple trees we offer are any of the standard varieties, adaptable to this work, budded on a American Ducine (Paradise) Apple stock, and the French Paradise stock the latter having the dwarfier effect of the two, which has the effect to dwarf the growth of the standard varieties when budded on this ancient stock. This habit of growth makes it essentially a city tree for the reason that the standard Apple grows rather too large for the city garden plot, while these Dwarfs do not attain a greater size than the Plum tree. Dwarf trees bear when very young, beginning to bear the second year they are out. Varieties we offer: Dutchess, Wealthy, Delicious and Yellow Transparent 2½ to 3 foot trees, \$1.00 each; 4 for \$3.60.

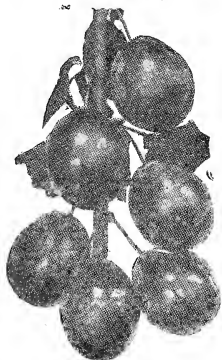
## PLUMS

### A LIST OF THOROUGHLY TESTED AMERICAN VARIETIES

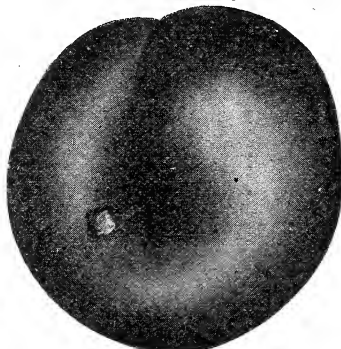
The Plum tree attains its greatest perfection on our heavy soils, being entirely free from disease. Plums are very hardy and grow vigorously in all sections.

#### PROF. HANSEN'S HYBRID PLUMS

**Hanska** This is a cross between a wild north-western plum and the *Prunus Simoni*. The flat shape of this plum and its peculiar red color with its heavy blue bloom distinguishes it from all other hardy plums grown in the Northwest. Tree a very strong grower and very hardy. An early and profuse bearer; quality good. Per each, 75c.



**Opata** A cross between the Dak. Sand Cherry and the Japanese Gold Plum, a very large hybrid by Burbank. It possesses the sprightly acidity of the Sand Cherry and rich sweetness of the Gold Plum, the male parent. Season extremely early. Dark purplish-red fruit. Per each, 75c.



Waneta Plum

**Waneta Plum** This is the largest fruiting variety out of ten thousand hybrids of the Hansen Hybrid varieties. Size of fruit, two inches in diameter. The tree is a cross with the Japanese Apple Plum and our native Iowa variety (*Prunus Americana*) the Terry Plum, which bears the largest fruit of all the native or Chickasaw varieties. Color of the fruit is dark red, flavor delicious; possesses the hardness of the native Chickasaw parent with the fruiting qualities of the famous Japanese variety; an early and profuse bearer. See picture outside back cover. Price: 5 to 6 ft., 2-year-old top growth, \$1.00 each; 5 for \$1.50.

**Sapa** This is a cross between the Western Sand Cherry and a large purple-fleshed Japanese variety, dark purple skin and rich dark purple flesh Plum called Sultan. The fruit has the glossy skin and rich dark purple red flesh of its Japanese sire. The Sapa attracted great attention as a new departure in stone fruits for the prairies of the Northwest. Begins bearing second year out and yields so abundantly as to cause the whole tree to droop prostrate to the ground with fruit. Each 75c; 3 for \$2.00.

#### SPECIAL PRICES ON ANY OTHER VARIETIES IN QUANTITY

### Native Plums

#### Chickasaw Varieties

**Terry Plum** The largest fruit of any of the Chickasaw or Native plums, fruit 2 inches in diameter. Tree strong, large, vigorous grower and perfectly hardy. Fruit bright, attractive color, and very firm. Price: 5 to 6 ft. trees, 75c each.

**Burwood** Tree is extremely hardy. It comes into bearing young and bears so heavily as to retard the growth of the tree. It is an annual bearer. Fruit good size and quality. Color red at full maturity. Ripens in August. 5 to 6 ft. select, 75c per tree.

**Wild Goose** (Improved). Tree a very strong, vigorous grower. Fruit larger than the old variety this name, deep red and of good quality. A valuable variety to raise. 5 to 6 ft., \$1.00 per tree.

## PEARS

**Seckel** (Sugar Pear). Tree rather slow grower but healthy and hardy and very productive, bearing immense crops of fruit. Small size but of the highest flavor and sweet as honey. The sweetest pear known and is a favorite with everybody who eats it. Should be sprayed once or twice during summer. We furnish in both Standard and Dwarf. Standard Stock, 5 to 6 ft., \$1.00 each. Dwarf stock, 4 to 5 ft., 75c each.

**Keiffer** This is the most popular pear grown; fruit of fine size, rich color and good quality; tree very vigorous and seldom blights; should be picked at maturity and ripened indoors. October and November. 5 to 6 ft. trees, 50c each. Dwarf stock 4 to 5 ft., 75c each.

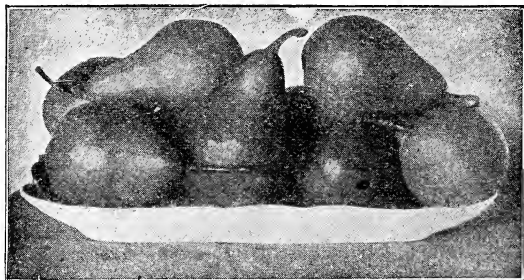


Plate Seckel Pears

### Mulberry

**Russian Mulberry** or Bird Mulberry. Introduced to this country by Russian Mennonites and on account of its hardness and rich foliage, makes a beautiful ornamental tree. The fruit is much inferior to the native, but is greatly prized by birds, keeping them away from other garden fruit.

For hedge size, see page 46. Trees 5 to 6 feet, 50c each; 8 to 10 feet 75c each.

## Currants

Hardy, easily cultivated, standing neglect well, indispensable for table use, jellies, etc. Set four feet apart in rich ground. If the currant worm appears, dust with hellebore.

**Diploma** This is the largest known variety of Red Currants in existence. Won the Pan-American Medal at the Buffalo Exhibition on account of its size and excellence. It is a strong, upright grower, prolific bearer, beautiful red berries of finest quality. 25c each; \$2.50 per dozen.

**Red Cross** This is another of the large-berried varieties. While not quite as large as the Diploma it has the advantage of being a sweet variety and requires very little sugar when canning.

**Fay's Prolific** It has given general satisfaction; fruit very large, bright red, and of excellent flavor, less acid than Cherry. It has a long stem, which admits rapid picking, and is enormously productive.

**White Grape Currant** Berries large, very productive. Much sweeter and better quality than the red varieties, excellent for table use.

**Black Champion** The leading well-tested black currant. Very productive. Excellent quality, strong grower.

Prices above: For 2-year, No. 1 standard varieties, 20c each; \$2.00 per dozen.

## Gooseberries

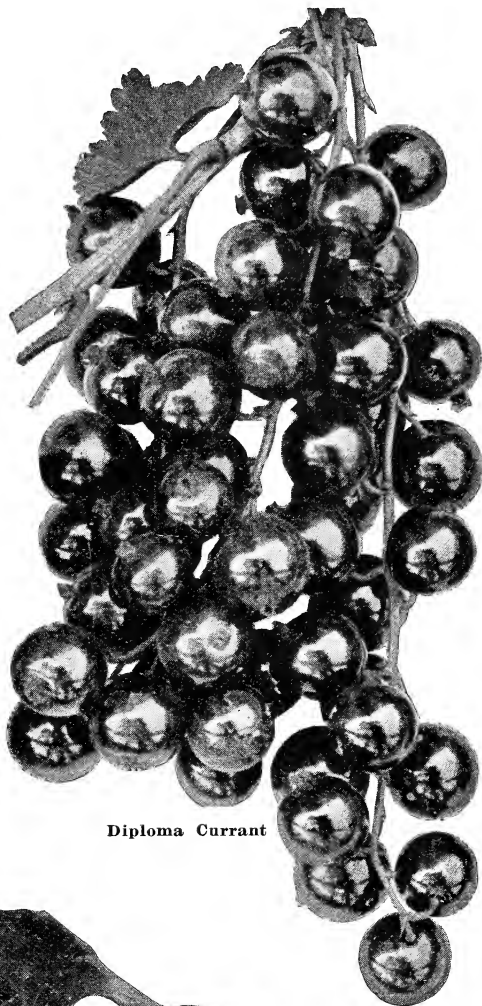
Should be planted in good, rich soil and well manured once a year. Even more rugged and easier to grow than Currants. Do not let bushes grow too thick; the fruit will be larger and more plentiful.

**Downing** Large; light green; soft, tender, good flavor; extremely vigorous, hardy and prolific. Per each, 25c; doz. \$2.50.

**Houghton** Most productive. Best payer of all. Yield easily 700 bushels per acre. Fruit excellent quality. 2-year, each, 15c; per doz., \$1.50; per 50, \$5.00.

## Buffalo Berries

**Buffalo Berry** Silver gray foliage quite like the Russian Olive in appearance. A native of the Missouri River country, hardy and most prolific bearer, fruit resembles the currant, a beautiful red color, ripens in July. 2 to 3 feet, 25c each; 5 to 6 ft., 50c each.



Diploma Currant



Houghton Gooseberry

## STRAWBERRY PLANTS



The plants marked (F) are **Pistillate**, and those marked (B) are **bi-sexual**.

Plants should be planted as soon as possible after digging.

Spring time is the safest and best season to plant though under favorable conditions can be planted in August or September.

**Strawberries** will succeed in any soil that is thoroughly prepared to a good depth. For field cultivation set in rows 3 to 3½ feet apart, 15 to 18 inches each way. To produce fine, large fruit, keep in hills, pinching runners off as soon as they appear. All are put up in bunches, 25 plants to bunches.

**Warfield** (P). Early. One of the most popular varieties of strawberries grown; large, top shaped berry, with a glossy red exterior that does not fade or become dull after picking; exceedingly juicy, just tart enough to make it delicious. Plant with two rows of Warfields one of Dunlaps.

**Senator Dunlap** (B). Perfect blossom. Medium to late. One of the most popular varieties known to the strawberry world. Dunlap is a large, handsome fruit, rich, dark red, with a glossy finish, shaded to deep scarlet on the under side, and prominent, bright yellow seeds that look like gold bronze. The foliage is tall, bright green, upright with a long leaf. Plant with Warfield.

**Early Elizabeth Strawberry** Ten days earlier than the Warfield or Dunlap. Very hardy and prolific; excellent quality. As a new, early variety of berry it surpasses anything that has ever been produced.

Prices of Strawberry Plants, June bearing, 25 for 50c; per hundred, \$1.00; per 500, \$4.50; 1,000 for \$7.50.

### Everbearing Strawberries

**The Everbearing Strawberries Have Made Good.** There can be possible doubt any longer about the everbearing strawberries. They have made good and then some. They have proved the past four seasons that they will bear all summer, earlier than the others and until the ground freezes in the fall. Ripe berries, green berries and blossoms all the time. And the best of berries, big and red, sweet and juicy. The plant is medium sized, closely resembling Dunlap; foliage strong and healthy, has a good root system, makes almost as many plants as Dunlap; spring set plants fruit the same year set out.

There are several varieties, the **Superb**, the **Americus**, and the **Progressive** which is one of the best known. **Progressive**—color deep red inside and out, quite firm, rich and sweet. Good young plants, per doz. 50c; per 100, \$1.50; per 500, \$6.50; 1000, \$12.60.

### MICHAEL'S GIANT EVERBEARING (B)

A new variety of Everbearing Strawberry of Iowa origin. Berries very large with a flavor and fragrance different from any other sort; are even palatable when yet partly green but when fully ripe they are very luscious and simply wonderful. Plants are strong growers with heavy root section to the depth of 15 inches and will

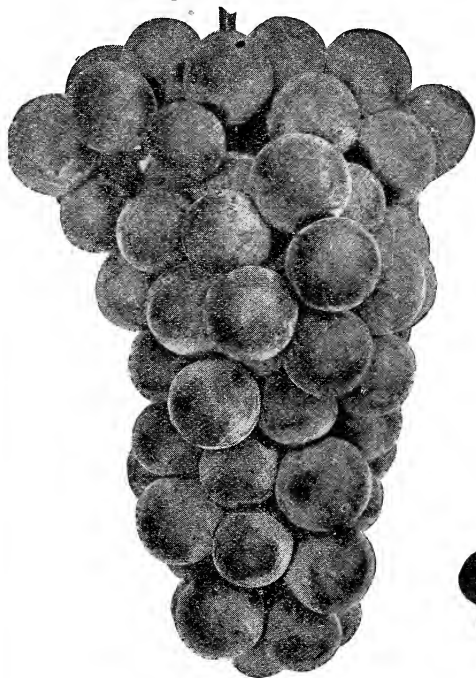
withstand more drought and dry weather conditions than any other variety known. 10 rods square beds have been known to yield nearly 200 pints to the bed the same year they were set out.

Price per dozen plants \$1.00; per 50 plants, \$4.00 per 100 plants, \$7.50.

## GRAPE VINES

One of the best, healthiest and longest cultivated fruits we have. Easy to grow in most any kind of soil that is not too wet, even a stony hill brings good results. Yet they are great feeders and pays to manure them well when planting, rich, well-rotted manure mixed in the soil.

**INSTRUCTION**—Grape vines should be planted so that the first bud next to the stem will come on a level with the surface of the ground. Grape vines have two layers of roots, from 6 to 8 inches apart, and in planting spread the lower layer of roots in their natural position; fill in the earth and press down in the soil firmly, then spread the second layer of roots and fill in the balance of the hole. After planting trim the vines back to two buds.



Concord Grape

**Concord** The most popular grape in America. Bunch large shouldered, compact; berries large, covered with a rich, dark bloom. No. 1 2-year-roots, 25c each; \$2.00 per doz., 25 for \$3.50; 50 for \$7.50; 100 for \$12.50. Special prices in large quantities.

**Niagara** White. This is the most valuable of all white grapes. Its clusters are large and handsome, compactly filled with large berries. When fully ripe, they are a pale yellow with a thin white bloom. Price: 2-year-old roots, 25c each; \$2.50 per doz.; \$15.00 per 100.

**Campbell's Early** Black. A new variety of strong, vigorous growth, very hardy, foliage perfectly healthy, very early and abundant bearer. The berries are large, nearly round; dark blue. Price: No. 1 2-year-old star stock, each 30c; doz. \$3.00.

**Clinton. Black** Bunches and berries small and compact. Berries juicy and quite acid. A good grape for dark red wine. Vine vigorous grower, productive and hardy. 2-year-old roots, 40c each; \$4.00 per doz.

**Moore's Early** Black with heavy blue bloom. Bunches of medium size, rarely shouldered. Berries large, round, of excellent quality; desirable for market on account of its earliness. Price: 2-year-old star stock, 25c each; \$2.50 per doz.; \$18.00 per 100.

**Agawam** Large red grape of rich, sweet, aromatic flavor. A vigorous, hardy vine. A splendid keeper and very prolific bearer. 25c each; \$2.75 per dozen; \$15.00 per 100.

### Care and Training of Young Vines

During the first season after planting, no pruning or training is necessary. The first pruning after planting may be done at any time during the winter when the vines are dormant and not frozen. The extent of the pruning will depend on the growth made. If the growth has been small all the canes except the strongest should be removed, and this one cut back to two eyes. If a strong growth has been made and there is one straight well-ripened cane, all other growth should be removed and this cane cut back to the height at which it is intended to head the vine; this one should be tied securely to the support, as it is to become and remain the trunk or main body of the vine, and should be kept as nearly erect and straight as possible. In summer pruning, the shoots except the main stalk should be removed when young. This concentrates all the force and growth of the plant into the trunk vine. For more detailed instructions write U. S. Department of Agriculture, Washington, D. C., for Farmers' Bulletin 471, "Grape Propagation, Pruning and Bearing."



Beta Grape

### Beta Grape

This is the greatest of all the arbor grapes, a cross with the cultivated black variety and the common wild grape. Vines in great profusion. Unpruned, it runs in every direction, as one man says: "Over the woodshed and down the alley fence in its mad flight to cover everything unsightly in sight." Fruit is medium in size; black in color, rather acid in taste, a splendid wine maker. Bears in great abundance, always bearing every season and is absolutely as hardy as its wild parent. Needs no protection. Price: 2 year-old No. 1, star stock, 35c each; per 6, \$2.00; per doz. \$3.50. See picture outside back cover.

## BLACKBERRIES

**LaGrange** This berry is a Russian product, having been brought from that arctic country about fourteen years ago, and has been fruited by Mr. LaGrange in Vermillion County, Illinois, for the past twelve years and in that time has not received any injury from cold winters. It is the hardest berry yet produced; it grows on canes like Lawton or Snyder, but stems from the ground up, and each fruit stem has ample foliage, each cluster of berries having a leaf. 25c each; 6 for \$1.00; doz. \$1.75.

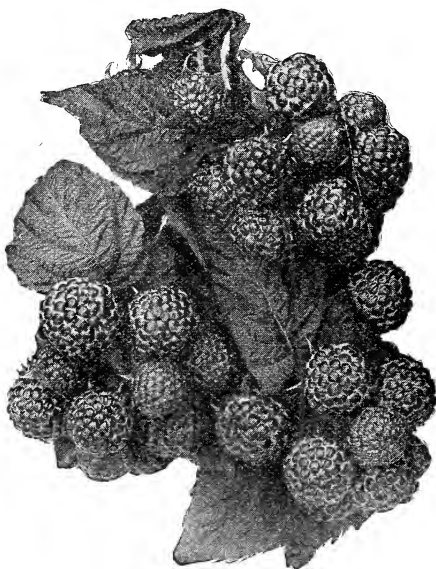
**Snyder** One of the best. Berries juicy and sweet. Large and productive. Per doz., 75c; \$4.50 per 100.

**Ancient Briton** Another hardy variety. Ripens after the Snyder. Strong roots, 10c each; 75c per doz., per 100, \$5.00.

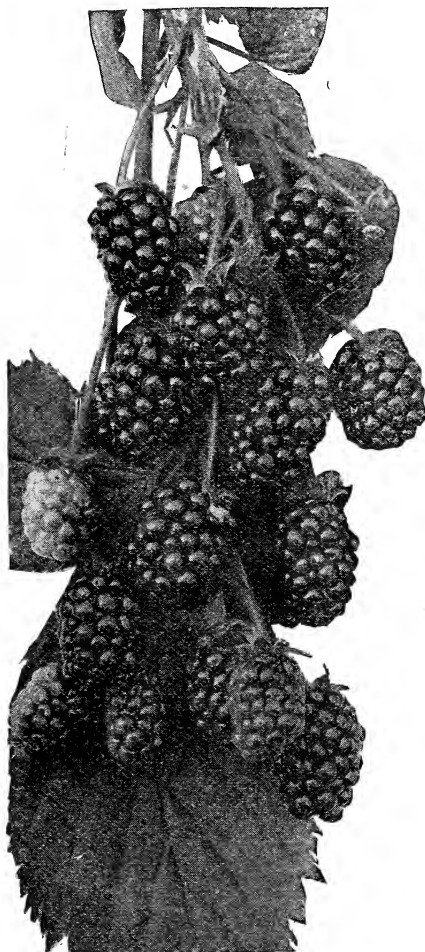
**Bartel's Dewberry** Is harder than any blackberry in any dry or cold climate—a grand delicious fruit. Each 10c; doz., 75c; per 100, \$4.00.

## RASPBERRIES

**Cumberland** Largest of all Black Caps; healthy vigorous grower, stout, stalky, well branched canes that produce immense crops. Per doz., 75c; per 100, \$3.50.



St. Regis



La Grange Blackberry

**Sunbeam** Originated by Professor Hansen of Brookings Agricultural College. It is a powerful grower with very heavy foliage and being of Dakota origin it is one of the hardest red raspberries grown. Quantity of the fruit very fair, medium size and very desirable. Price each, 10c; per doz. 75c; \$5.00 per 100.

**St. Regis Everbearing Red** Raspberries for four months! That is what you get when you plant the St. Regis, the new everbearing variety. A brilliant crimson color; the first raspberry to give ripe fruit and bears without intermission until late October. 10c each; 75c per doz. \$3.75 per 100.

**Herbert** In hardiness it easily takes first place, standing a lower temperature than any other kind. The cane is very strong and vigorous, slightly prickly, leaves large and healthy. Fruit bright red, somewhat oblong, larger than Cuthbert, flavor very sweet and juicy. Season 5 to 6 days before Cuthbert. Per each, 10c; \$1.00 per doz. \$4.00 per 100.

We handle other varieties of both Black Caps and Red Raspberries, standard sorts, which we quote at 75c per dozen; \$3.50 per hundred.



## ORNAMENTAL FLOWERING SHRUBS

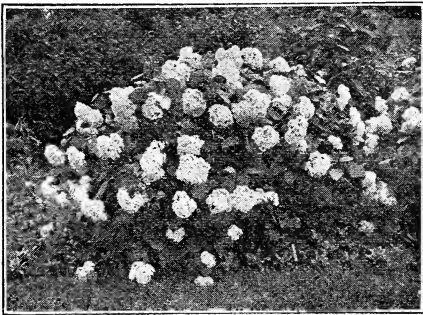
Nothing adds more to the beauty of a place than to have the sides and background well filled with groups of shrubbery. Whether you have a lawn of many acres, or an humble dooryard, we recommend this class of plants as indispensable to the real beauty of your home.

**Almond Double Flowering Pink.** One of the earliest and finest of shrubs. Loaded down with double pink flowers which attract attention. 2 to 3 feet, 75c each.

**Almond Double Flowering White.** Like above but with snowy white flowers. 2 to 3 feet, 75c each.

**Dogwood** (*Cornus Siberica*). A very hardy, small handsome bush which has a dark red bark, making an effective and showy winter display among other shrubs with handsome white flowers in early summer which are distinctly dainty. Per each, 3 to 4 ft., 50c. Large 5-yr. old clumps, 4 to 6 ft., \$2.50 each.

**Hydrangea Arborescens** Everblooming. Sometimes called Everblooming Snowball. This new American variety begins blooming in June and continues all season. Very easy of culture and hardy. Blooms best if flowers are clipped before ripening. 2 to 3 feet, each 60c; 6 for \$3.50; 3 to 4 ft., 75c each.



Hydrangea Arborescens

**Hydrangea** (*Paniculata Grandiflora*). Large, flowering Hydrangea, hardy. A fine shrub, growing from 4 to 6 feet high. Flowers white, in large pyramidal panicles, produced in August and September. Each, 2 to 3 feet, 60c; 6 for \$3.50; 3 to 4 ft., 75c each; tree form 3 to 4 feet, \$1.50.

**High Bush Cranberry** This plant has a handsome broad foliage of a shiny green color, turning to a rich, coppery tint as the season advances. Flowers are white and conspicuous. The berries are a brilliant scarlet and remain on nearly all winter. Per each, 3 to 4 ft., 75c; large clumps, 5 to 6 ft., 5-year-old, \$2.50 each.

**Elder, Golden** (*Sabucus Aurea*). A variety with golden yellow foliage. Grows to a height of about 8 feet and is useful for contrast effect. The berries are edible. Should have full sun to give best effect; can be pruned into a neat, compact little bush. 3 to 4 ft., 50c each.

**Crab** (*Bechtel's Flowering*). Makes a medium sized tree; perfectly hardy, succeeds well in all soils. When in bloom appears to be covered with delicate pink, perfectly double small roses of delicious fragrance. Price: 3 to 4 ft., each, \$1.00.

**Forsythia, Suspensa** (*Golden Bell*). These splendid old shrubs light up the lawn with masses of yellow, very early in spring before the leaves appear. 2 to 3 ft., 35c each.

**Flowering Currants** Hardy, bushy shrubs, growing 6 feet high; prized on account of their early spring flowers; bright berries and bark; and pretty, richly coloring foliage. Price: 2 to 3 ft., 50c each.

**Honeysuckle** (*Red Tartarian, bush form*). Grows to a height of 8 feet with upright, somewhat spreading branches and bright green foliage. The flowers are borne freely in May and June, are of a bright pink color. 3 to 4 feet, select, each 35c; 3 for \$1.00; large clump, 5 year old, \$1.00.

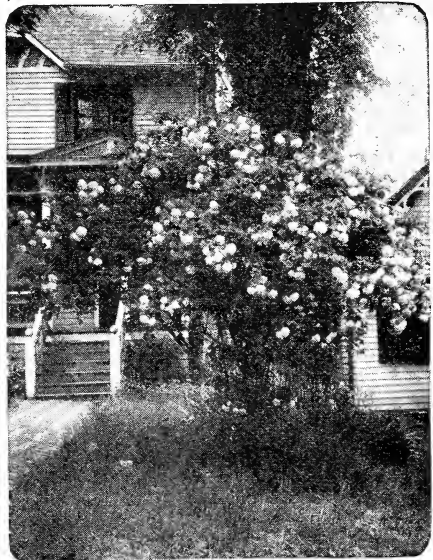
**Prunus Triloba** (*Double Flowering Plum*). A very desirable hardy shrub. Blooms in May. Flowers double delicate pink which are thickly set on long slender branches. Per each, 3 to 4 ft., \$1.00.

**Rhodotyphus** (*Kerrioides*). A distinct decorative shrub. Foliage very large and handsome; branches clustered with delicate white pendulous flowers in spring followed with black berries that last through the winter. Per each, 3 to 4 feet size 50c. Large clumps, 5 to 6 years old, 3 ft., \$2.00 each.

**Syringa Philadelphus** (*Coronarius*). (*Mock Orange*). Is one of the strongest-growing varieties with very fragrant flowers. Price: 3 to 4 ft., 50c each; large 5-yr. clumps, \$2.50 each.

**Syringa Lemoine** (*Mock Orange*). Flowers of this variety are large, semi-double, very fine. The bush is of more dwarfish habit and will not get over four feet high. 2 ft., each, 50c.

**Syringa, Golden Leaved** A handsome dwarf variety with golden-yellow foliage; keeps its color the entire season; is splendid for grouping with other varieties for pleasing effects. Never over 3 feet high. 2 ft., 75c each.



**Snowball** (*Virburnum Opulus Flora Plena*). One of the favorites of old-time gardens. It grows into a magnificent high bush with upright branches and handsome foliage. It forms one of the most impressive sights of early summer, when its pure white four-petaled flowers, borne in showy balls are in bloom. Hardy everywhere, 2 to 3 ft., 50c; 3 to 4 ft., 75c each.

**Weigelia** (*Eva Rathke*). The finest Weigelia in cultivation; flowering continuously throughout the summer and autumn; of rich ruby carmine. 35c each.



## Lilacs

Do you love the lilac? If so we have something rare and beautiful. Best beloved of the old time flowering shrubs which grows into a high bush with bright green, heart-shaped leaves, whose flowers never fail to charm with their delicate beauty or refresh with their tender fragrance. Can be used to good advantage in making an effective background for smaller shrubs. Hardy everywhere. New varieties are occasionally produced with a deeper coloring and larger form. Our list comprises some of these magnificent sorts.

**Mme. Casmir Perier** The finest double white lilac yet introduced. The individual flowers as well as the truss are of immense size, deliciously scented; very fragrant. Price: 3 to 4 feet, \$1.00 each; tree form, 3 to 4 feet, \$1.50.

**Michael Buchner** Dwarf variety. Very double flower, beautiful, pale lavender lilac. Very effective among other taller shrubs as a border feature. Each, 2 to 3 feet, 75c.

**Persian Lilac** Blooms a good deal more than the common and has smaller

leaves. Does not sprout as much from the roots. Persian white, 3 to 4 ft., \$1.00; tree form, \$1.25; Persian purple, 3 to 4 ft., 75c.

**Souvenir de Ludwig Spaeth** A choice variety with long panicles of single flowers; dark, purplish blue. Price: 3 to 4 ft., each, \$1.00; tree form, 3 to 4 ft., \$1.50.

**Lilac Common Purple or White.** The old-fashioned lilac, which grows into a very high bush, with bright green, heart shaped leaves. In May covered with light purple flowers. Each, 3 to 4 ft., 50c; tree form, \$1.25.

## Spirea

**Spirea Van Houttei** (Bridal Wreath). We can say positively this shrub is the most attractive lawn shrub known. Has white flowers, astonishingly profuse in blooming; very fine for cemeteries, 3 to 4 feet, fair clumps, 50c each; 12 for \$4.50; large clumps, many canes, 4 to 5 feet, each, \$1.00. Pair, \$2.00.

**Spirea Aurea** A beautiful variety with golden foliage and double white flowers in June. Per each, 3 to 4 feet, 40c; large clumps, \$1.50 each.

**Spirea** (Anthony Waterer. The grand ornamental hedge shrub; grows about 2½ feet high; dwarf, compact bush; deep crimson flowers from June until frost. Price: 18 to 24 inches, each, 50c; 6 for \$2.75.

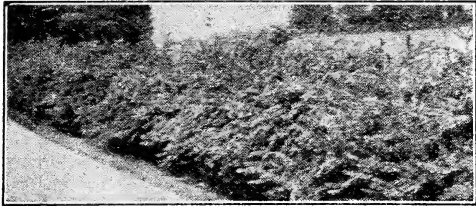
**Spirea Billardi** Rich pink colored flowers in large spikes; blooms nearly all summer. Very pretty and showy and splendid for cut flowers. Grows 6 feet high. Price: 2 to 3 feet, 35c each; 6 for \$2.00.

**Gloria de Lorraine** Splendid large single flowers in large tresses; red in bud lilac when open. Bush dwarf habit not growing over 3 ft. high. Price, \$1.00, each.



## HEDGE SHRUBS

**Barberry Thunbergi** Of dwarf graceful habit; foliage small, changing to beautiful red early in fall. 1½ ft. to 2 ft., per each, 35c; doz., \$4.00; per 100, \$30.00; large 5-year-old clump, \$1.00 each; 12 to 15 inch size, per 10 15c; per doz. \$1.25; per 100 \$10.00.



Barberry Hedge, (Thunbergi)

**Buckthorn** (*Rhamnus Catharticus*). A dense twiggy bush, with dark foliage, relieved by masses of attractive white flowers in June and July. Most ornamental of all hedge plants. Makes a good prunable hedge. Price: 18 to 24-inch size, \$15.00 per 100.

**Russian Olive** Makes a medium sized hedge; very hardy and beautiful. Foliage growth is silvery white. The most popular hedge plant of the North. Price, 18 to 24 inch, per 25, \$1.50; 50, \$2.75; per 100, \$5.00.

**Privet, Amoor River** Is of vigorous growth, has glossy dark green foliage, keeping its color. Price: 18 to 24 inch, 2 to 4 canes, per 100, \$12.50. Polish Privet, 18 to 24 inch, same price.

## CLIMBING VINES

### Moon Flower.

(*Noctiflora*). A wonderful climbing vine which grows rapidly to the height of 20 feet in a single season. Flowers open at sundown and bloom all night with a delightful fragrance. Potted plants in full foliage, 4 inch pot size 35c each, 3 for \$1. See page 19 for seed



Moon Flower

**Ampelopsis** (*Engelmanni*). This is one that clings firmly to the smoothest surface, covering it closely with over-lapping foliage. 2-year, 25c, 4 for \$1.00.

**Ampelopsis** (*Veitchii*). Boston Ivy. It is a splendid plant for covering any object, as it clings perfectly to the smoothest surfaces. Price: 30c each.

### Clematis (New).

**Sweet Scented Paniculata.** Flowers pure white in large clusters. Bright green foliage and fragrant flowers. Price: 2-year roots, 35c each; 3 for \$1.00.

**Clematis Jackmanii.** A beautiful, hardy, climbing vine bearing great wreaths and clusters of splendid purple flowers. Price: roots, 75c each.

### Cinnamon Vine

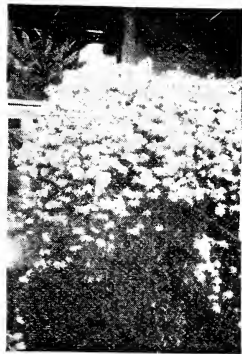
Well known hardy climber; quick grower, with beautiful glossy heart-shaped leaves and sweet-scented flowers. Vines will run 25 to 40 feet in a season. Large roots, each, 10c; doz., \$1.00.

**Dutchman's Pipe** *Sipho*. A plant of climbing habit and rapid growth, with magnificent light green foliage, curious, pipe-shaped, yellowish brown flowers. Price: \$1.00 each.

**Honeysuckle** *Scarlet Trumpet*. Blossoms freely entire season; bright red flowers. 35c each, 3 for \$1.00.

**Honeysuckle** *Hall's Japan*. The finest climber, trumpet shaped flowers, sweet scented; extremely hardy. 35c each.

**Maderia Vine** One of the best and most popular climbers for foliage effect. Large bulbs, 10c each, 75c per doz.; Medium size, 5c each, 50c per doz.



Clematis Paniculata



Trumpet Vine Flower

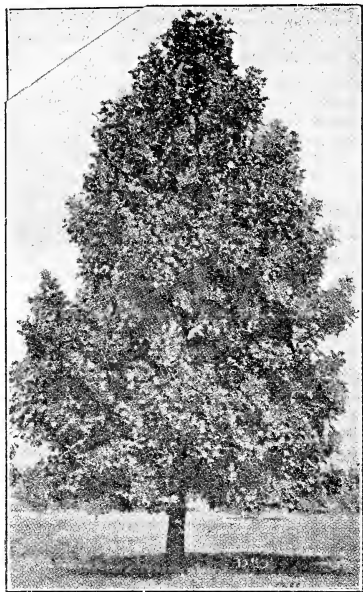
**Trumpet Vine** *Bignonia Radicans*. Dark red orange throat, free blooming. Very hardy and rapid grower. Useful for covering unsightly places, stumps, or wherever a showy flowering vine is desired. Each 35c; 3 for \$1.

**Wisteria** Purple flowering. Rapid grower. Flowers pale blue borne in long pendulous clusters, blooming in May and June. Price: 40c each; 2 for 75c.

**Wild Grape Vine** Besides being fruit-bearing a great viner and very hardy. Cultivated vines. Price: 35c each.

## NATIVE SHADE TREES

Below we give a list of shade trees that are hardy and can endure the dry weather of the West and the frigid winters of the Northwest.



Carolina Poplar

Special Price on any and all varieties shade trees in quantity.

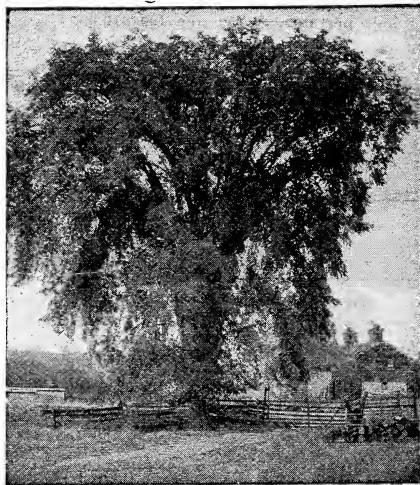
**Poplar, Carolina** A very rapid-growing tree resembling the Cottonwood, but has a larger leaf, thicker and more spreading top, 8 to 10 foot, 75c each; 3 for \$2.00; 10 for \$5.00. Special price per 100.

**Bolleana Poplar** A tall columnar tree of picturesque and very formal aspect. A very rapid growing and hardy tree, long lived, leaf bicolored, surface light green under side silvery gray with pleasing most stately tree. 8 to 10 feet, \$1.50 each; 5 for \$7.00.

**Volga Poplar** A Russian variety, hardy and vigorous growers. A tall, columnar type, like the Lombardy, but more durable. 8 to 10 ft. 75c each; 3 for \$2.00; 10 for \$5.00.

**Poplar, Silver-Leaved** Rapid growth and wide spreading habit of form. Leaves glossy silvery green above and white underneath. Very hardy and a splendid shade tree that will grow anywhere. 8 to 10 ft., \$1.25 each; 5 for \$6.00; 4 to 5 ft. whips. \$25.00 per 100.

**Maple, Soft or White** A native tree. A very desirable tree if trimmed to keep down suckers and avoid forks. 8 to 10 ft., \$1.00 each; 1½ to 2 inch caliper, \$2.00 each.



The Stately American Elm

**Elm Native White American.** A native of South Dakota and the entire Northwest. One of the best trees for street use. 8 to 10 ft., \$1.00; 10 for \$7.00; 1½ to 2 inch caliper, \$3.00 each; 8 to 10 ft. f. o. b. growing stations, \$60.00 per 100.

**Norway Maple** A large and handsome tree of compact growth; deep green foliage affording a dense and refreshing shade. 8 to 10 ft. size, \$2.50 each.

**Sycamore** A lofty, wide-spreading tree, heart-shaped leaves. Makes a fine street tree. 8 to 10 ft., \$1.25 each.

**Hackberry** A very desirable street tree of stately appearance and graceful foliage. 8 to 10 ft., \$1.50 each.

**Mountain Ash (European).** A fine hardy tree; head dense and regular. 6 to 8 ft., \$1.00 each.

**Horse Chestnut** (Castanea). White flowering. A fine large tree of compact outline, dense dark green foliage. In June covered with white flowers. 5 to 8 ft., \$1.75 each.

**Sugar Maple** (Acer Saccharum). A popular American tree of pyramidal form. The foliage is large and handsome and of rich, pleasing green. 8 to 10 ft., \$2.00 each.

**Black Walnut** This is a common and stately forest tree. Has an open and spreading form and of rapid growth. 6 to 8 ft., \$1.25 each.

**Linden** A handsome lawn or shade tree. The blossom is very fragrant and sweet. Price: 8 to 10 ft., \$2.00 each.

## Weeping Ornamental Deciduous Trees

**Birch Cut-Leaf Weeping.** The most erect and graceful tree. It has silvery bark and finely cut foliage. Price: 6 to 8 ft., \$3.00 each.

**Mulberry Tea's Weeping.** The most graceful and hardy weeping tree in existence. Price: 2-year heads, \$3.00 each.

**Weeping Willow** Wisconsin, Neobe or Baby-lonia; well-known trees of pendulous or weeping habit. Price: 6 to 8 ft., 50c; 3 (one of each) for \$1.25.

**Weeping Elm Camperdown.** Its vigorous branches, which have a uniform habit, overlap so regularly that a compact, roof-like head is formed. Leaves are large and rich, glossy dark green. Price: 2-year heads, \$3.00.

**Mountain Ash (European Weeping).** Grafted on tall stems this tree spreads into a pretty green tent of shade, making it a distinct and beautiful ornament to the lawn. Price: 2-year heads, \$2.50 each.

## ROSES

### Our Rose Department Is a Dream

We handle nothing but the very hardiest varieties and the very finest bloomers. Many varieties are too tender for the Northwest. Hothouse roses are worthless for outdoor planting—ours are field grown, are more easily transplanted, and hardier. Before planting roses cut them back severely. Our stocks of roses are all 2-year No. 1 powerful roots.

Mildew. Use Bordeaux Mixture as long as the disease continues. For Slugs, use Hellebore or Arsenic till destroyed. Lice. Use Kerosene Emulsion, apply until destroyed.

### Hardy Perpetual Roses

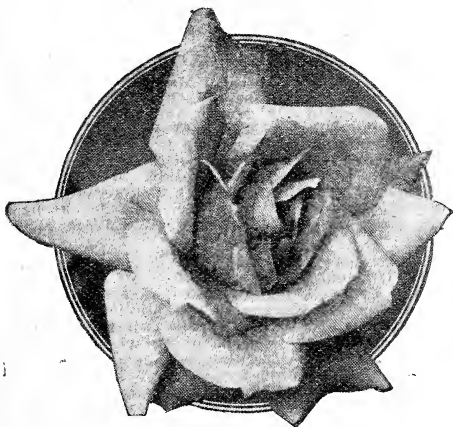
These are hybrids or crosses between June and Monthly roses, partaking of the hardness of one parent and the perpetual blooming habit of the other.

**General Jacqueminot** This might be called the rose for the million, for it is still a universal favorite. Bright crimson scarlet, exceedingly rich and velvety. Price: 2-year No. 1, 60¢ each; 3 for \$2.00.



Gruss an Teplitz

**Gruss an Teplitz** One of the brightest colored roses grown. When first opened, it is a dark, rich crimson, changing to a bright scarlet. Blooms continually; flowers good size and delightfully fragrant. 2-year No. 1 stock, 75¢ each; 5 for \$3.50.

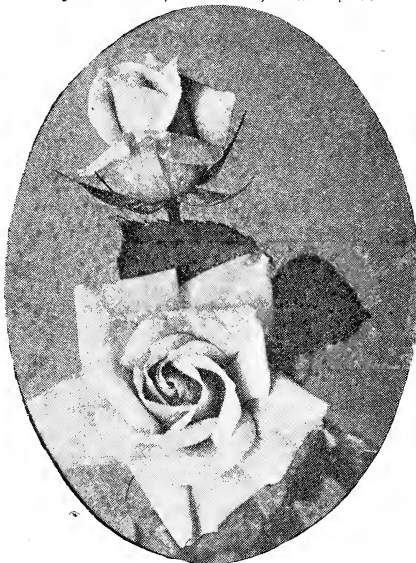


Paul Neyron

(World's Most Glorious Pink)

**Paul Neyron** The largest rose in cultivation, sometimes called the Paeony Rose. Color bright, fresh, cerise pink. Flowers are very double and full, delightfully fragrant. The plant makes a strong, healthy growth and has clear, glossy foliage. Blooms almost without intermission from June until late October. Per each, 2-year No. 1 stock, 60¢; 3 for \$2.00.

**American Beauty** The world famous rose. Rich, rosy-crimson, exquisitely shaded. A universal favorite. Not hardy. Price: 2-year No. 1 stock, 75¢ each.

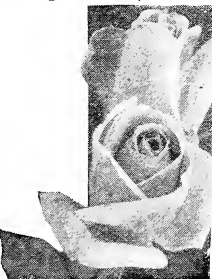


Los Angeles

**Los Angeles** This is one of the grandest all-round roses of American origin ever put on the market. The stems are as long as American Beauty; the flowers are large as Paul Neyron; its freedom and continuance of bloom are remarkable; its color a "flame pink, toned with coral and shaded with translucent gold at the base of the petals." \$1.00 each.

### Frau Karl Druschki

**White American Beauty.** (Lambert, 1900). This grand rose has become renowned as the very highest type of its class and the best snow-white rose ever introduced. It is an extraordinary grower, and has the vigor and hardness of an oak. 2-year No. 1 stock, 60¢ each.



Druschki, White American Beauty

**Ulrich Brunner** A superb rose. Extra large bold flowers; full and globular; petals large and of good substance. Color rich, glowing cherry scarlet, very fragrant, blooms freely. One of the finest hardy roses. Price: each, 2-year No. 1 stock, 60¢; 3 for \$2.00.



## Ramblers and Climbing Roses

**Climbing American Beauty** This variety retains the deep pink to crimson color and the same delightful fragrance of the bush American Beauty. 2-year, 60c each.

### Rambler Roses



(C. P.). This grand old climber hardly needs description. The magnificent trusses of bright crimson flowers are freely produced and admired by everyone. Very hardy and a strong grower. 2-year-old, No. 1 stock, each variety.  
Crimson Rambler, 50c  
White Rambler, 40c.  
Yellow Rambler, 50c  
Blue Rambler, 50c.  
3 of either for \$1.25.

### Dorothy Perkins

The most popular climbing rose of today and harder than the Ramblers. Most beautiful shell pink and holds a long time without fading. 2-year, 35c each, 3 for \$1.00.

### Rugosa Roses

**Rugosa Roses** (Ramanas). The hardiest rose in existence. Ideal for the Northwest. These lovely roses form sturdy bushes 3 to 5 feet in height, covered with handsome glossy, green foliage and clusters of beautiful fragrant flowers. Rugosa, single red; Rugosa, single white. 2-year No. 1 field grown, 35c each, 3 for \$1.00; per doz. \$3.00.

**Conrad F. Meyer** (Hybrid Rugosa). Flowers large, perfectly double, cup-shaped. Color, deep, bright, vivid, intense pink, with a penetrating fragrance. 2-year No. 1, each 75c.



Sir Thomas Lipton

**Sir Thomas Lipton** (Hybrid Rugosa). The best pure white Rugosa Rose. Strong and vigorous; grows four feet high. Flowers perfectly double, pure snow white, with a penetrating fragrance. Price, 2-year-old No. 1, each, 75c.

**Excelsa** (New). (Red Dorothy). The color is an intense clear crimson, with tips of the petals tinged with scarlet. Grows 10 feet in a season. Flowers are large and double and almost every eye produces a cluster of bright blossoms. 2-year No. 1 stock, 35c each.

**White Dorothy** A beautiful white flowered cluster Rose, as free and expressive as its pink rival, the Dorothy Perkins. The vines are a sheet of white during their blooming season. 2-year No. 1 stock, 25c each.

**American Pillar** A single-flowering variety of a great beauty which appeals to everyone. The flowers are of large size, 3 to 4 inches across, of a lovely shade of pink with a clear white eye and cluster of yellow stamens. 2-year No. 1 stock, 50c each.

**Gardenia** (Hardy Marechal Neil). The finest hardy yellow climbing rose yet produced. Deep, rich golden yellow; flowers borne in great profusion on strong, vigorous bushes as hardy as oaks. 3-year Star stock, hardy field grown each, 50c; 3 for \$1.25.



Baby Roses



### Dwarf Polyantha Roses

**Baby Rambler** The flowers are borne in clusters to 30 or 40, and the foliage is dark, glossy and profuse.

Crimson Baby Rambler, 75c each.

Pink Baby Rambler, 75c each.

White Baby Rambler, 75c each.

### Cemetery Roses

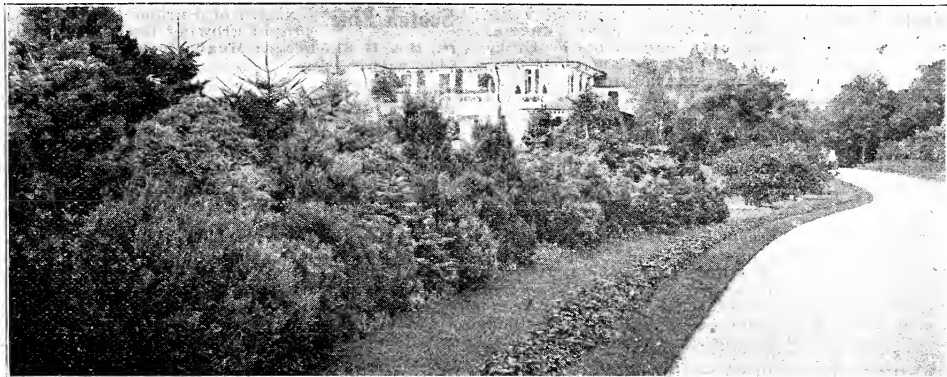
**Memorial White Rose, Mandy's Triumph.** (Wichuraina). This rose makes a beautiful and enduring covering for graves and plots in cemeteries. A very hardy Memorial Rose. It creeps along the ground as closely as Ivy. Flowers are produced in lavish profusion. They are single pure white, with a golden-yellow disc, five to six inches in circumference. It is also immensely valuable as a climbing rose, covering arches, fences, etc. 2-year No. 1, each, 35c; 3 for \$1.00.

### Potted Roses

These are such varieties as Hybrid Perpetuals and Tea Roses 2 year old No. 1 Field Grown Stock, potted in February and started growing in the greenhouse. They are in full foliage and ready to plant out in the Spring when weather conditions are such that they can be planted outdoors from about the 1st to 10th of May at earliest. They will then continue to bloom all through the Summer and Fall and if well protected by a covering of earth after shedding their foliage in the late Autumn will live through the winter outdoors and come again the following Spring and make a perpetual bed of these beautiful flowers that one can always have if necessary pains are taken.

Would also include in these Potted Roses in foliage the well known **Crimson Rambler**, one of the best and most popular climbers, and among the others is the well known **American Beauty**, **Paul Neyron**, **Gruss an Teplitz**, **Opheia**, **Los Angeles** and others. Price: grown in 5 inch pots, \$1.00 each; 6 inch potted size, \$1.50 each. Special price in dozen lots.





An Evergreen Planting Which Appeals to Our Love of the Home Beautiful

## HARDY EVERGREENS

Evergreens give a cheerful appearance to a home. If properly handled, taken up with ball of earth are as sure to live and grow as deciduous trees. We list only such varieties as are found to do the best here in this soil and climate. See special prices in large quantities seedlings and transplanted stock given below.

The term "B & B" used in these descriptions means dug up with "ball of dirt and "burlaped."

### ORNAMENTAL STOCK

#### Specimen Trees

**Arbor Vitae** *Pyramidalis*. This exceedingly beautiful Arbor Vitae is the most compact and erect of the entire species. Foliage a deep green. Specimen trees, 2 to 3 ft., B. & B., \$3.50 each; 3 to 3½ ft., \$5.00.

**Arbor Vitae** One of the most beautiful and ornamental of all varieties of Arbor Vitae, color being an intense Pea green, specially adapted for outdoor vases. 2-3 ft. B & B \$2.00 each; 3-4 B & B \$3.00 each.

**Red Cedar** (*Juniper Virginiana*). The well known American Red Cedar, varying some in habit and color of foliage. Very attractive in winter when the golden bronze of the young growth contrasts with the dark green foliage of the older growth. Specimen trees, 2 to 3 ft., B. & B., \$1.50 each. *Pyramidalis* form, B. & B., 3 to 4 ft., \$2.00 each.

**Japan Cedar** (*Juniper Pfitzeriana*). A handsome, bushy tree, with delicate foliage borne on long, whip-like branches. Fine for borders. Prices, 2 ft., size, B. & B., \$2.50.

**Silver Cedar Juniper** (*Virginiana Glauca*). A very beautiful silver foliage variety of the Juniper. 2½ ft. B & B \$5.00 each.

**Mugho Pine** (*Dwarf*). Very distinct, leaves short, stiff, little twisted and thickly distributed over the branches; does not grow tall but spreads form; very dense. Per each, diameter measure 1½ feet, B & B, \$2.00 each; 2 to 3 ft., \$3.50.

**Trailing Junipers** (*Sabina*). A low growing, spreading evergreen with very handsome dark green foliage; one of the easiest varieties of all the Juniper Family to transplant. It is highly suitable for lawns, nooks and corners, and also unexcelled as a Cemetery Evergreen. The most attractive of all the Evergreen Family, especially dwarf varieties. It is priced and sold according to diameter of the spread of the branches. Price 24 to 36 inch spread, B. & B., \$4.00 each; \$7.50 per pair; 18 to 24 inch spread, 2.75 each; \$5.00 per pair.

**Juniper Sabina** one sided, spreading foliage 18-24 inch spread, B & B, \$3.50 each.

**Juniper Sabina** (*Horizontalis*), spreading foliage, 18-24 inch spread, B & B, \$4.00 each.

**Juniper Canadensis** 2-2½ ft., B & B, \$5.00 each.

**Black Hills Spruce** (*Picea Alba*). This has grown in the Black Hills for many generations. It is admirably equipped for the Western prairies, easily transplanted and altogether it is very desirable for the general planter. Specimen trees dug with ball dirt burlapped, 2 to 3 ft., \$1.50; pair for \$2.50.

**Norway Spruce** A very beautiful evergreen of large and lofty appearance. It is well adapted for windbreak purposes and will stand pruning well when planted for hedge. Specimen trees, B & B, 2 to 3 ft. \$2.00 each.

**Blue Spruce** (*Koster Grafted*). Other trees there are of almost every imaginable color and form, but here is truly the culmination of Nature's highest effort to produce the beautiful. Specimen trees, B & B, 2 to 3 ft., \$7.50 each; 3 to 4 ft., \$10.00 each.

**Colorado Blue Spruce** (*Picea Pungens*). It is extremely hardy and endures well the sun and drying winds. The needle is very sharp pointed and varies in color from a delightful green to a deep blue. Specimen trees, select blue, B & B, 2 to 3 ft., each, \$5.00; per pair, matched, \$9.00; select green 2 to 3 ft., \$2.50 each.



## Pines for Shelterbelts and Groves

**White Pine** The White Pine is the most valuable shelter belt evergreen known. It is one of the easiest transplanted of the Evergreens, a rapid grower, long lived and does well everywhere. Makes perfect windbreaks, shelter breaks or screen. Price: 2 to 3 ft., B & B., \$1.25 each.

**Austrian Pine** (*Pinus Austriaca*). A stocky, rapid grower. Needles long, stiff and dark green. Rather handsome and fine formed. Price: 2 to 3 ft. B & B., \$1.50 each.

**Scotch Pine** Native of Europe, a fine, robust, rapid growing Evergreen. 2 to 3 ft., B & B., \$1.50 each; Mugho form, 2½ ft., B & B., \$3.00 each.

**Jack Pine** (*Pinus Banksiana*). An unusually rapid grower, making two or three growths or points each year, where other pines make but one. A very valuable tree in sandy poor soils where nothing else will succeed. Price 2 to 3 ft., B & B., \$2.00 each.

## Evergreen Seedlings

Transplanted Nursery grown stock and Forest Grown Stock.

**BLACK HILLS SPRUCE**—This variety of (*Picea Alba*), has come to stay as a great wind-break Evergreen for the North and all exposed locations. Easiest and safest to transplant of all Evergreens. Most certain to live. Native Forest Grown from the Black Hills, 12 to 18 inch size (shipping weight about 25 lbs. \$4.00 per 100. 18 to 24 inch (shipping weight about 40 lbs.), \$6.00 per 100, f. o. b. Black Hills points in South Dakota. Sold only in 100 lots. Nursery grown stock seedlings, 6 to 8 inch, \$7.50 per 100. Nursery grown transplanted stock 12 to 18 inch, \$35.00 per 100, 18 to 24 inch, \$50.00 per 100.

**NORWAY SPRUCE**—Seedlings 4 to 6 inch, \$2.50 per 100. Nursery grown transplanted stock 12 to 18 inch, \$15.00 per 100; 18 to 24 inch, \$17.50 per 100.

**ARBOR VITAE** (*Orientalis*) Seedlings 4 to 6 inch, \$3.00 per 100.

**ARBOR VITAE** (*American*), Transplanted Nursery grown stock, 12 to 18 in. \$17.50 per 100.

**JACK PINE**, Nursery grown seedlings, 6 to 10 inch, \$12.00 per 100. Nursery grown transplanted stock 18 to 24 inch \$17.50 per 100.

## Forest Tree Seedlings

All orders for River Forest Grown Tree Seedlings booked subject to unavoidable Providential happenings such as forest fires, floods, strikes and weather conditions over which we have no control.

### RIVER GROWN

	2 to 3 feet	
	Per 100	Per 1000
Ash .....	\$1.50	\$ 6.00
Elm .....	2.00	10.00
Maple .....	2.00	10.00
Cottonwood .....	1.00	5.00
Willow .....	1.00	5.00

### NURSERY GROWN

	2 to 3 feet	
	Per 100	Per 1000
Box Elder .....	\$2.00	\$12.50
Mulberry (Russian) .....	3.00	20.00
Black Walnut .....	3.00	25.00
Catalpa .....	1.50	12.50

**NOTICE**—All prices subject to conditions and market changes. Forest trees in five and ten thousand lots, special prices on application.

## INSECTICIDES AND FUNGICIDES

The control of insects and fungi is imperative in every garden. Plants must be protected from their enemies, if they are to produce most luxuriantly in flower and fruit. There are three kinds of these enemies—fungous diseases or blights, insects which eat the foliage, and insects which suck the sap of the plants.

**Dry Lime Sulphur** Best remedy for San Jose Scale and bark lice for use early in the season before the foliage puts out on fruit trees and berry bushes; mix one part to ten parts water. Also one of the best summer sprays as an excellent fungicide. When used in summer dilute with twenty to thirty parts water. Prices: lb. pkg., 25c each; 5 lbs. \$1.00; 10 lbs. \$1.75; 20 lbs. \$3.00.

**Arsenate of Lead** Dried powder Arsenate of Lead will destroy leaf eating or leaf chewing insects such as the **Codling Moth**, **Plum Curculio**, **Canker Worm**, **Tussock Moth**, **Gypsy and Brown Tail Moths**, and similar insects that feed on the foliage of fruit trees, shade trees and ornamental shrubbery. It readily mixes with water and stays in suspension almost indefinitely and insures an even distribution of the poison. Price: 1 lb. pkg., 50c each.

**Hammond Slugshot** Guaranteed to destroy potato bugs feeding on potatoes, tomatoes, egg-plant, also currant worms, cabbage lice, and cabbage worms. 1 lb. package, 25c; 5 lbs., \$1.00.

### TOBACCO DUST

(Regular Grade). 4 lbs., 25c; 10 lbs., 60c; 100 lbs., \$5.00.

**Bordeaux Mixture** The best fungicide for curing and preventing black rot, mildew and blight. Price: lb., 50c.

**Nicotine Sulphate** "Black Leaf 40" is a concentrated solution of nicotine sulphate, guaranteed to contain 40 per cent nicotine by weight. It is a contact insecticide. Mix 1-oz. bottle with 8 gallons of water. Price: Per oz. bottle 35c; ½ lb. can, \$1.25.

**Paris Green** Our Paris Green is absolutely pure and meets the requirements of packages. ¼ lb., ½ lb., 1 lb., 2 lb., and 5 lb. State and National laws. Put up in sift-proof cartons. Prices on application.

**Tree Tanglefoot** A perfect safeguard for trees against the Caterpillar of the Gypsy, Brown Tail and Tussock Moth, and also Canker Worms, Cut Worms, Ants and other creeping insects. Will remain sticky about three months when fully exposed to the weather. A band of one sixteenth of an inch thick cannot be crossed by insects. Works equally as well during a rainstorm as before and after it. Will not dry up and drop off in hot weather. It acts as a trap in catching insects at any temperature between freezing and 110 Fahrenheit. Price: 1 lb. cans, 50c each.

## CARBOLA

**CARBOLA** is a white paint and powerful disinfectant combined in powder form. It paints and disinfects in one operation and it can be applied with a brush or spray pump to wood, brick, stone, cement, plaster board, etc., and over whitewash.

You just pour some of the Carbola powder into a pail of water and it is ready in a minute or two. It will not clog the sprayer, blister, flake or peel off and doesn't spoil by standing even after it is mixed with water.

### SATISFACTION OR MONEY BACK

Trial Package .....	\$0.30
10 pounds (10 gallons) .....	1.25
20 pounds (20 gallons) .....	2.50
50 pounds (50 gallons) .....	5.00
200 pound bags .....	18.00

## FERTILIZERS

For the intensive cultivation of plants in the home garden or grounds, fertilizers play a very important part. The following fertilizers represent the best for the home garden and the lawn. All prices subject to market changes.

Prices quoted are F. O. B. depot or delivered in city within delivery distance. 50c per hundred allowed from these prices delivered at store door, 316 Pearl St.

**Sheep Manure** A pure, natural manure that gives immediate effect. Planted directly in the hills or drills with the seed. It promotes a rapid and steady growth until maturity. On lawns well raked in either spring-time or fall adds wonderfully to the growth of the grass, 100 lbs to about 2500 sq. ft. It makes the richest, safest and best liquid manure. For use in liquid form, 1 lb. of the material to 5 gallons of water will make a liquid that can be used daily with safety. 5 lbs., 25c; 25 lbs., \$1.00; 100 lbs., \$2.50; 500 lbs., \$12.00; ton, \$35.00.

**Hydrated Lime** Much of our soil is sour and needs lime. Lime sweetens sour soil. Lime loosens up hard, sticky and compact soil, it liberates the plant foods by aiding decomposition of organic matter in the earth, making it available and digestible to plant life. It will put your soil in condition to grow two blades where but one grew before. Sprinkle lightly and evenly over your lawn at the rate of about 4 pounds to every one hundred square feet. The autumn is a good time to apply as the winter gives it plenty of time to work into the soil. Hydrated lime is put up and sold in 50-lb. bags at a price of \$1.25 per bag; per 100 lbs. \$2.25.

**Stim-U-Plant** Comes in tablet form and contains highly concentrated plant food in immediately available form, stimulating

the growth of flowers, vegetables, fruit and the ornamental plants. Full description with each package. Trial size, 10 tablets, 15c; medium size, 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

**Bone** (Fine Ground). For use by the vegetable gardener it is superior to anything on the market. It has been steamed to soften same and is quick to act. For trees or vines use 2 to 4 lbs. About 5 lbs. for 100 square feet for starting a new lawn. Per lb., 10c; 3 lbs., 25c; 100 lbs. \$4.50; 500 lbs. \$17.50.

**Acid Phosphate** This fertilizer is the most readily available form of phosphorus. It can be used on any crop that bone meal is used on. It is very soluble and more quickly taken up by the plant life than bone meal. Phosphorus promotes root growth in young plants and is the active element in the formation of seed or grain. Crops are often matured as much as a week in advance of normal by use of phosphate. Any soils which have been cropped for any great length of time soon become lacking in phosphorus for the best results. Per 100 lbs., \$2.50; 500 lbs., \$12.00.

**Nitrate of Soda** Not a substitute for other manures, but is the best form in which to apply nitrogen to the plants. In pulverized form can be used as a top dressing at the rate of 1 lb. for 500 square feet, or 100 lbs. per acre when plants are well established. Per lb., 15c; special prices in quantity.

## SIMPLICITY HEDGE TRIMMER

For fresh new growth only.

This trimmer was designed and built to meet and satisfy the demand of thousands who have hedge of some sort around their homes.

When operating the **SIMPLICITY TRIMMER** and **PRUNER** be sure to slightly deflect the blades by tilting the handles upward. Simplicity Hedge Trimmer. Price, \$5.00 each.

**SIMPLICITY'S** are made of the Finest High Grade Carbon Steel and will give you long service and satisfaction.

## SIMPLICITY HEDGE PRUNER AND TRIMMER

For pruning back old growth and trimming new.

The **SIMPLICITY PRUNER TRIMMER** can also be used for trimming with excellent results. Many home users have chosen it to do all their trimming. Price, \$7.50.

Upper figure in picture—**SIMPLICITY HEDGE TRIMMER**.

Lower figure—**SIMPLICITY PRUNER TRIMMER**.

## A GREAT PRICE REDUCTION

### NITRAGIN COSTS LESS

Nitratin now comes in Bushel sizes instead of acre sizes. This means that it costs you less per acre than inferior imitations. If you sow 12 pounds of seed to the acre it will only cost you 20 cents for your Nitratin. It means that **YOUR DOLLAR GOES FURTHER WITH NITRAGIN**.

Nitratin is an old, reliable inoculator. At the low price of 20 to 23 cents per acre you cannot afford to sow legumes without it. Nitratin is put up in the modern ventilated package; in a rich, soil-like packing medium. The contents are always fresh, living bacteria to feed your plants. Easy to use.

### EVERY GARDEN NEEDS NITRAGIN

New Garden Culture for Peas and Beans—See Below.

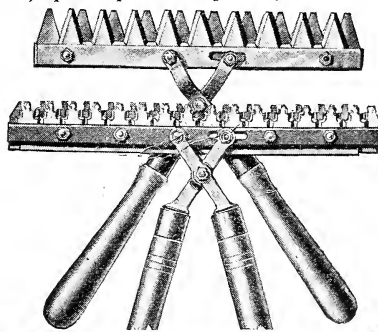
#### PRICES

1/4 Bushel size.....	40
1/2 Bushel size.....	60
1 Bushel size.....	\$1.00
5 Bushel size.....	4.75
Garden (peas, beans, sweet peas —three in one package).....	20

Postage.....	4c
Postage.....	5c
Postage.....	7c
Postage.....	10c
Postage.....	2c

State What Crop You Want the **NITRAGIN** For

Alfalfa, clovers, soybeans, vetches, peas, beans, cowpeas, peanuts, and other legumes, should always be inoculated with Nitratin. The lack of necessary, bacteria in the soil is often the cause of a poor legume crop—a weak start—or a total failure.



The Improved Soil Inoculator, Nobbe-Hiltner Process



Restores and Maintains Soil Fertility

This means that it costs you less per acre than inferior imitations. If you sow 12 pounds of seed to the acre it will only cost you 20 cents for your Nitratin. It means that **YOUR DOLLAR GOES FURTHER WITH NITRAGIN**.

Nitratin is an old, reliable inoculator. At the low price of 20 to 23 cents per acre you cannot afford to sow legumes without it. Nitratin is put up in the modern ventilated package; in a rich, soil-like packing medium. The contents are always fresh, living bacteria to feed your plants. Easy to use.



## POULTRY SUPPLIES

ALL PRICES ON POULTRY AND ANIMAL FOODS SUBJECT TO CHANGE

Our Poultry Foods Are All Foods—No Waste, Always the Same

**Starter** (For the Little Fellows.) Is a complete and properly balanced food for small chicks two days to two weeks old, adapted to their delicate digestive organs. 6 lbs., 25c; 50 lbs., \$1.55; 100 lbs., \$3.00.

**Eureka** This is a food intermediate between the Starter and the Acme Scratching Food. (For chicks from two weeks to two months old). 6 lbs., 25c; 50 lbs., \$1.50; 100 lbs., \$2.75.

**Acme** (Scratch Food). Combination of Wheat, Kaffir, Cracked Corn and various other rich cereals. All food and no waste. 7 lbs., 25c; 100 lbs., \$2.75.

**ALFALFA MEAL** furnishes the green food that is absolutely necessary for winter egg production. 5 lbs., 25c; 100-lb. bags, \$2.75.

**CRUSHED OYSTER SHELLS.** One of the most commonly used articles in poultry yards. Price: 15 lbs. 25c; 100 lbs. \$1.25.

**CHARCOAL.** Most successful poultry raisers feed this soft food. 3 lbs., 25c; 10 lbs., 60c.

**MICA GRIT.** Fowls have no teeth, so it is essential that they should have grit. 100 lbs., \$1.25.

## PRATTS PRODUCTS

### PRATTS BUTTERMILK BABY CHICK FOOD

Made of sweet, wholesome, purest ingredients in the most modern poultry feed mill in America and mechanically predigested, it is life insurance for chicks. Every ounce is full of bone, muscle, feather and health builders. You'll pay for the food in the chicks you'll save.

Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

25c and 50c packages and 14, 25, 50 and 100-lb. bags.

**Pratts Poultry Regulator** 25c, 50c, \$1.10 packages; 12 lb. pail, \$1.65; 25 lb. pail, \$3.00; 100 lb. drum, \$10.00.

**Pratts Powdered Lice Killer** In sifter top 25c and 50c. top cans at

**Pratts Condition Tablets** Keep them on hand always. 25c and 50c boxes

**Pratts Roup Tablets** 25c and 50c packages.

**Pratts Poultry Disinfectant** Qt. 55c; half gal., 90c; gallon, \$1.50.

**Calf Meal** Price: 25 lb. bag, \$1.35; 50 lbs. \$2.50; 100 lbs. \$5.00.

**Egg Mash** This is a genuine Egg Food for laying hens. 25-lb. bag, \$1.25; 100 lbs. for \$5.00.

### Animal Poultry Foods

**Bone** (Coarse ground for poultry). Lb., 10c; 5 lbs., 25c; 100 lbs., \$4.50.

**Blood Meal** It will make hens lay during winter months. Lb., 10c; 3 lbs., 25c; 10 lbs., 75c.

**Beef Scraps** (Granulated Protein 60 to 65 per cent). Lb., 10c; 4 lbs., 25c; 100 lbs., \$5.50.

## BLATCHFORD'S PRODUCTS

**Pig Meal** Milk substitute. 25 lb. bag, \$1.35; 50 lbs. \$2.50; 100 lbs. \$5.00.



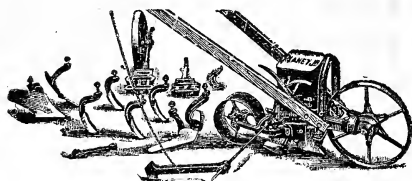
### The New Way to Spray

#### THE STANDARD SPRAY PUMP

As used with bucket, knapsack, tank or barrel for spraying orchards, gardens, vineyards, whitewashing, disinfecting chicken houses, killing vermin on stock. It throws a spray 25 feet; throws a solid stream 50 to 60 feet high. With two solid brass valves. No leather washers or sockets. No castings to rust. No leaky joints. Nothing to get out of order.

Price \$5.00 Each

Warranted to Purchaser for Five Years



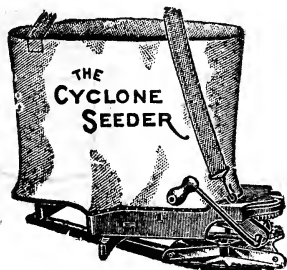
Planet Jr. Planter No. 25

### Planet Jr. Garden Planters

Special Cut Price. Subject to change without notice.

No. 4D Planet Jr. Combined Hill and Drill Seeder. As Seeder only, \$14.00 each.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. \$20.00 each. Weight, packed, 61 lbs.



### Lang's Hand Weeder

Handiest Tool on Earth. Per each, 20c.

### Cyclone Seeders

It is especially designed for distributing evenly all kinds of grain as well as every variety of grass seed. Price: \$2.00.

# Peonies—World's Greatest Three

ALL PERFECT IN POINTS OF PERFECTION

## PEONY CLUMPS

3-year-old undivided Price Each

FESTIVA MAXIMA.....	\$3.00
EDULIS SUPERBA.....	2.75
FELIX CROUSSE.....	3.00

See Page 27 for Full Description

FELIX CROUSSE

Price—3 to 5

Eye Roots

75c Each



EDULIS SUPERBA

Price—3 to 5

Eye Roots

35c Each

FESTIVA  
MAXIMA

Price—3 to 5

Eye Roots

40c Each.

## THE MICHAEL SEED STORE

J. S. MICHAEL, Prop., Auto Phone 2142. New Phone 935-M. 316 Pearl St., Sioux City, Iowa

**WANETA PLUM**

(Hanson Hybrid)

See page 31.



**BETA  
GRAPE**

See page 37

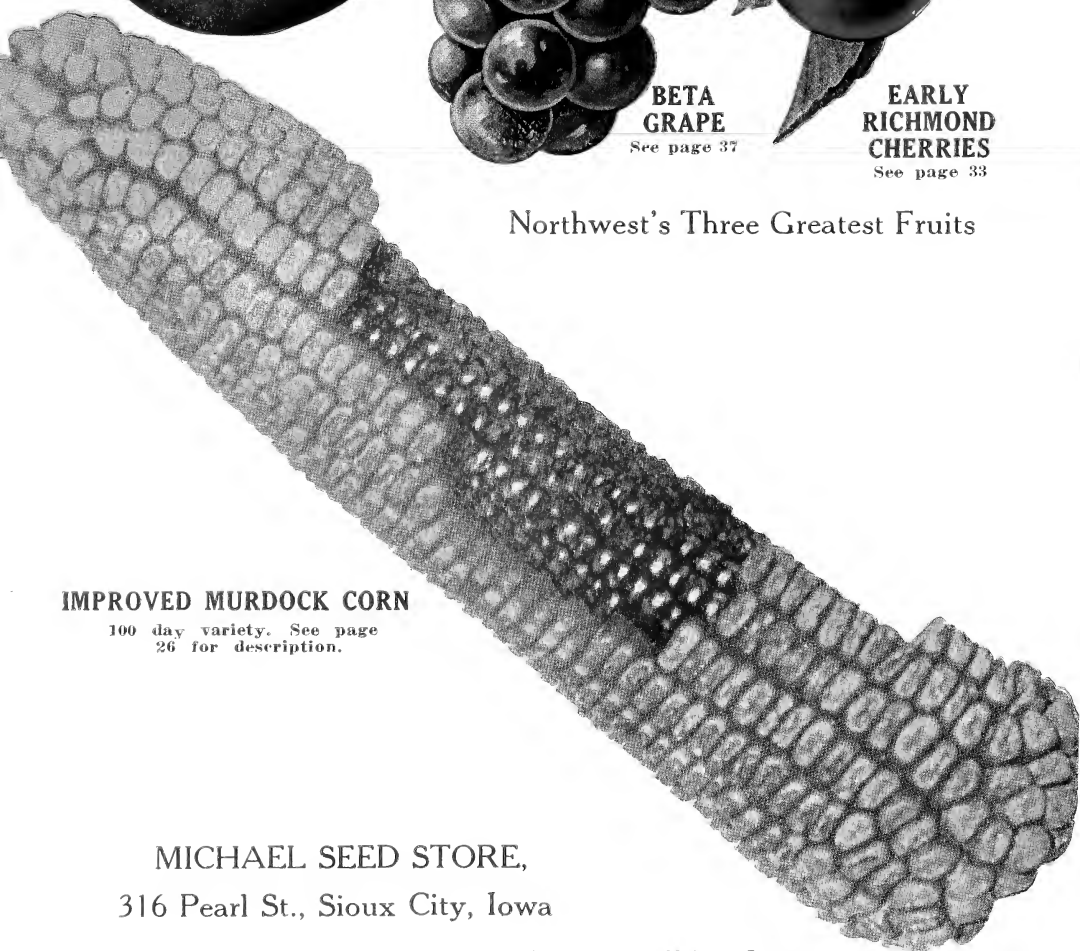
**EARLY  
RICHMOND  
CHERRIES**

See page 33

Northwest's Three Greatest Fruits

**IMPROVED MURDOCK CORN**

100 day variety. See page  
26 for description.



MICHAEL SEED STORE,  
316 Pearl St., Sioux City, Iowa

Campbell Printing Co., Des Moines, Iowa